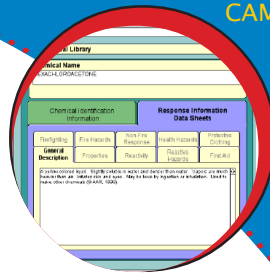
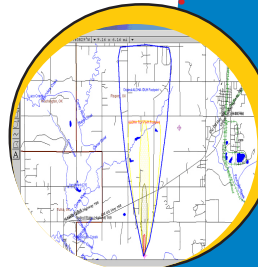
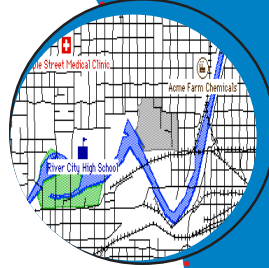


CAMEOofm 1.1.2



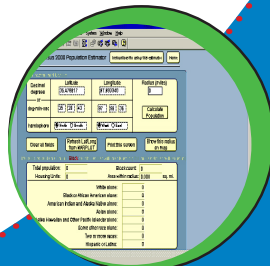
MARPLOT 3.3.1



ALOHA 5.3.1



Arizona Emergency Response Commission
October 2004



LandView 5

FOREWORD

The **CAMEO Companion** is designed to provide a written help resource for all CAMEO Suite users, particularly those who utilize the software on an occasional basis. The Companion developers recognize that while many persons attend CAMEO training courses, the skills gained in those training sessions fade when persons operate the programs infrequently. The CAMEO Companion provides explanations and step-by-step instructions to help CAMEO users perform emergency response and planning activities learned in CAMEO training classes.

It is an integrated resource, compiling information and assistance for the four CAMEO components. It is not intended, nor does it claim, to be comprehensive; the Companion provides refresher-type information for CAMEO functions commonly used in emergency response and planning activities. More detailed explanations regarding the CAMEO products are found in the User Manuals produced by EPA/NOAA which are freely available on the CAMEO website.

The CAMEO Companion features 2 main sections: CAMEO Companion for Responders and CAMEO Companion for Planners. The text allows publication of 1 book containing both sections, or each section may be published as a stand-alone product. The decision as to how best to publish the Companion is left to the discretion of those providing this resource to their constituents.

The developers welcome all comments, criticisms, corrections, and suggestions related to this work.

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CAMEOfm, ALOHA, LandView and MARPLOT are registered trademarks of the U.S. Government. The CAMEO Companion developers wish to take this opportunity to thank both EPA and NOAA for their long-term support of the emergency response and planning communities through the development of CAMEOfm and CAMEOfm-related products.

Filemaker is copyrighted software of Filemaker, Inc. Access, Excel, and Word are copyrighted by the Microsoft Corporation.

The CAMEO Companion team wishes to recognize Tom Bergman for his work in developing and writing the CAMEO Companion and Anne Leitner for her outstanding work as the CAMEO Companion project editor.

The CAMEO Companion team wishes to express our heartfelt gratitude to the CAMEO Trainers nationwide who have given so much of their time and talents to the CAMEO program. Their efforts have been an integral part of the widespread use of CAMEO among the HazMat response and planning community.

DEDICATION

This book is dedicated to Emergency Planners and Responders, both internationally and at home, whose efforts make our world safer from the consequences of Hazardous Materials incidents, and to those who recognize the need to provide the support necessary to sustain and enhance Hazardous Materials detection, prevention, preparedness, response, and recovery capabilities.

*Daniel Roe, Executive Director
Arizona Emergency Response Commission (AZSERC)*

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CAMEOfm Companion for Responders

GET THE SOFTWARE



From the Internet: CAMEOfm, ALOHA, MARPLOT, RMP-COMP, NOAA Evaporation Calculator, Tier 2 Submit



From other users: Copy the installers programs to CD-ROM; use export and import functions to move appropriate data

WEBSITES



CAMEOfm and ALOHA: <http://www.epa.gov/ceppo/cameo>



Tier 2 Submit: <http://yosemite1.epa.gov/oswer/ceppoweb.nsf/content/tier2.htm#t2forms>



RMP-COMP: <http://yosemite1.epa.gov/oswer/ceppoweb.nsf/content/rmp-comp.htm>



Landview 5 and 6: <http://www.census.gov/geo/landview/>; <http://www.atlas.lsu.edu/landview5/>

THE INSTALLER PROGRAMS

By visiting the websites, you generally download the “installer” programs. The following instructions suggest you “save” the various installer utilities to your computer desktop. However, you may choose to “save” them to a CD-ROM as well. In either case, the process remains the same.

1. Download the “installer”
2. Open to installer to write the software to your computer

After you download the “installer” programs, you will “double-click” on each and be able to load each respective program on your computer, usually to your c:/ drive.

Many of you will be using Landview along with the CAMEOfm suite. **If you are using Landview, do not download MARPLOT from the CAMEOfm homepage!**

DOWNLOADING THE INSTALLERS

CAMEOfm and ALOHA

1. Go to www.epa.gov/ceppo/cameo
2. Choose "Request CAMEOfm" or "Request ALOHA" from the left side of your screen
3. Scroll down to # 2 and select "CAMEOfm Download Page"
4. Choose either of the following options:
 - a. CAMEOInstaller.exe (windows)
 - b. CAMEOInstaller.hqx (macintosh)
5. Choose "Save this file to disk"
6. Save it to your desktop or CD-ROM

MARPLOT

With Landview 5:

1. If you are using Landview 5, MARPLOT installs with Landview (see "Installing Landview below). In this case, do not install MARPLOT from the CAMEOfm Homepage!

Without Landview 5:

1. Go to www.epa.gov/ceppo/cameo
2. Choose "Request CAMEOfm" from the left side of your screen
3. Scroll down to # 3 and select "MARPLOT Download Page"
4. Choose either "MARPLOT for Windows" or "MARPLOT for the MacIntosh"
5. Choose "Save this file to disk"
6. Save it to your desktop or CD-ROM

RMP-COMP

1. Go to web address: <http://yosemite1.epa.gov/oswer/ceppoweb.nsf/content/rmp-comp.htm>
2. Scroll down to "Get RMP-COMP" and select it
3. Select "Download RMP-COMP"
4. Save to your desktop or CD-ROM

Landview

At the time of this writing, Landview 6 is available, but cannot yet be downloaded from the Internet. Information about “ordering” Landview from the U.S. Census Bureau can be found at: <http://www.census.gov/geo/landview/>

Landview is a “public domain” software, which means anyone may copy and use the product. You may obtain “free” copies of Landview from one of your state agencies, or from your regional EPA offices. Landview 5 is available for free download at: <http://www.atlas.lsu.edu/landview5/>

Installing Landview

Landview installs its own operating software, and also installs MARPLOT. Installing Landview will depend on the “version” you acquire. You may have a “run-time” version, which will open and run simply by inserting the CD into your computer CD tray. The difference between “run-time” and “regular” versions of Landview are made readily apparent by simply placing the Landview CD in the computer tray and “opening” the program. The runtime version will display as follows on your computer screen. Either version may be installed using the following steps.

1. Insert the Landview CD-ROM into your CD tray
2. Allow a minute or so for the computer to read the Landview CD
3. If the Landview “splash screen” appears, close it
4. Use your desktop or start menu to open the My Computer folder
5. Select the drive labeled “lv5”
6. Select the INSTALL folder
7. Select the “mac” or “windows” folder as appropriate to your computer
8. For windows, select INSTALL.EXE
9. For mac, extract the LandView_5_Installer.hqx and follow the directions (see Instructions on CAMEOfm Homepage)

Most of the time, you will want to install the CAMEOfm suite programs to your c: drive. If you need to install to other drives, you will need to make some adjustments in the pathways that allow CAMEOfm, ALOHA, and MARPLOT to communicate.

OPERATING CAMEOfm ON A NETWORK

See *CAMEOfm Help: Managing Your CAMEOfm System: Running CAMEOfm on a Network.*

Using the “Navigator”

CAMEOfm offers several ways to navigate in a specific module or between modules. Some navigation tools are native to FileMaker Pro and the NOAA programming staff has built others. How you choose to move about in the software is completely up to you.

The CAMEOfm initial screen (also known as a “splash screen”) is called “the navigator”. From this screen, you can choose from three basic actions:

- ✿ Initiate a search in either the Chemical Library or the Facilities module
- ✿ Move from module to module within CAMEOfm
- ✿ Move to ALOHA or MARPLOT

To return to the navigator screen:

1. Choose “Navigator” from a module toolbar
2. Select “File”, then “Show Navigator” from the CAMEOfm main toolbar



Two FileMaker Pro navigation techniques also allow a return to “the navigator”. These two techniques are:

- ✿ Select “Windows” then “Navigator” from the CAMEOfm main toolbar
- ✿ Finding the navigator module box as part of the “minimized” module boxes residing at the bottom of your screen

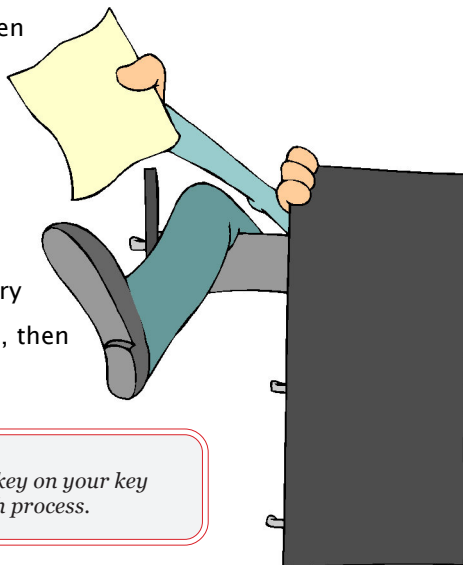
Finding a Chemical Record in the CAMEOfm Chemical Library

OPENING THE BASIC SEARCH ENGINE FROM THE NAVIGATOR

1. Open the Navigator Screen
2. Select "Search for a Chemical"

OPENING THE BASIC SEARCH ENGINE FROM THE SEARCH MENU

1. Open the Chemical Library
2. Select the "Search" menu, then select "Start Search"



***Note:** Do NOT use the "ENTER" key on your key board at any time during the search process.

FINDING A CHEMICAL RECORD USING BASIC SEARCH

Search Screen "Operators"

Make sure to set the "search operator" to the desired selection, which will be either "Contains word" or "Contains word starting with". Both operators work for either "text" or "numeric" fields.

Basic Search Tips

Chemical Name: A Chemical Name search may return any number of "found" chemical names, because the Search examines both the "preferred chemical name" and the "synonyms". There are 6113 "preferred chemical names" and over 80,000 "synonyms" in CAMEOfm (see *What to Do When Your Search Returns Multiple Chemical Names*).

CAS #: CAS # format is as follows: reading the number string from right to left, there will be 1 digit, -, 2 digits, -, then from 2-6 digits. *Example CAS Numbers:* 64-69-1; 8002-05-9; 101-98-3; 10004-55-7. You **must** enter the CAS # with the "dashes" in the correct placement.

DOT Label: The DOT Label is **not** the same as the transportation placard number (UN/NA #). DOT Label choices are given in the drop-down menu.

CHRIS Code: Three- letter code usually found on ocean-going shipments.

UN/NA #: UN/NA stands for “United Nations/North American”. This is the familiar four-digit transport placard found on trucks, railcars, etc.

***Note:** For best results, use “general” text search terms. For example, when searching for a “white crystal”, split the terms into two searches: one search for the word “white”, then a subset search for the word “crystal”.

General Description: This search the RIDS General Description field, which is a “text” field. It is usually best to enter only one “text” term at a time, and then use either the Subset Search/Append Search to “add” other text words to be searched.*

Advanced Search Tips

Opening Advanced Search: Advanced Search is **always** opened from the Basic Search screen.

Advanced Search “AND /OR” Options: Make sure to select “AND” or “OR” search options as appropriate for the specific search.

Resetting the Advanced Search: Advanced Search allows up to four fields per search. To “reset” from multiple fields to a single field, use the “Remove a Choice” button until only a single field and operator line is displayed. Use “Clear All Fields” to delete previous search parameters.

Searching RIDS Properties: You may search the CAMEOfm “Properties” values; including IDLH, Vapor Pressure, LEL, UEL, ERPG, Flash Point, Specific Gravity, etc. **Properties searches allow numeric value input ONLY.** You may not determine the “units” associated with a particular field. For example, IDLH values may be expressed as “ppm” or “mg/m³”; a “found set” for “IDLH is less than 500” will include chemical records with both IDLH less than 500 “ppm”, and IDLH less than 500 “mg/m³”. Most Properties fields have the same “units” throughout the database (e.g., UEL/LEL are always expressed as %) or may be unitless (e.g., specific gravity has no “units”).

What To Do When Your “Search” Returns Multiple Chemical Names

EXPLANATION OF CAMEOfm “CHEMICAL NAME” SEARCH

Chemical Name List and Synonyms

A Chemical Name search may return any number of “found” chemical names, because the search examines both the “preferred chemical name” and the “synonyms”. There are 6113 “preferred chemical names” and over 80,000 “synonyms” in CAMEOfm.

One way to “narrow” your search is to use the “Subset Search” to enter additional search information.

Example: Searching for “chlorine”:

1. Open the Chemical Library Basic Search
2. Set Search Operator to “contains a word starting with”
3. Enter “Chlorine” to Chemical Name field
4. Select “Search” and view the 28 found set
5. Select the “Search” menu
6. Select “Subset Search”
7. Enter “7782” in the CAS # field
8. Select “Search”; the found set is now single chlorine record.

Understanding the Chemical Library Information

DEFINING FIELD DATA AND ACRONYMS

Definitions for the Chemical Library Fields and most of the RIDS Acronyms can be found in the CAMEOfm Glossary and Help sections.

Definitions of Chemical Library Data Fields

1. Select the "Help" menu from the CAMEOfm top menu bar. This should open the Contents page.
2. Scroll down to Heading 3, "Working with Chemical Records"
3. Select "Understanding the information in the Chemical Library"

Here you can find all the definitions for the Chemical Library ID and RIDS sections fields.

Definitions of Acronyms

Definitions of acronyms and other chemical terminology are found in the CAMEOfm Help Glossary.



1. Select the "Help" menu from the CAMEOfm top menu bar. This should open the Contents page
2. Scroll down to the bottom of the page and select "Glossary"
3. Use the scroll bar or the index letters to locate the term of interest





Researching Chemical Information

ASSESSING RISKS FOR A SPECIFIC CHEMICAL






Determining the dangers associated with each chemical can be a complex process. In association with the CAMEOfm Chemical Library, you should utilize any and all other available sources of chemical information, including MSDS sheets, the Emergency Response Guidebook, the NIOSH Chemical Handbook, and other software programs.

One way to use the CAMEOfm Chemical Library is to attempt to answer the following questions by viewing the associated Chemical Library ID and RIDs tabs.

Can this material hurt me?

-  NFPA Codes
-  Regulatory Page (see *CAMEOfm Glossary and Help*)
-  General Description
-  Properties

How can this material hurt me (i.e., inhalation, ingestion, absorption, explosion, reactivity)?

-  General Description
-  Properties
-  Health Hazards
-  Reactive Hazards
-  Fire Hazards

What level of exposure does it take to hurt me?

- ☼ Properties: ERPG, AEGL, TEEL, IDLH, and TLV values
- ☼ Health Effects

What can I do for victims? First-Aid and other Medical information

- ☼ First Aid
- ☼ Health Effects

What step can I take to control the release? Response Options and Personal Protection Information

- ☼ Non-Fire Response
- ☼ Firefighting
- ☼ General Description
- ☼ Protective Clothing

CAMEOfm AND REACTIVE CHEMICALS

Chemical ID and RIDS Sections

CAMEOfm features six sources of information concerning Chemical Reactivity, which can all be found in the Chemical Library. These six sources are:

1. Chemical ID Section
 - a. NFPA Reactive Rating
 - b. NFPA Special Rating
2. RIDS Section
 - a. General Description
 - b. Reactivity
 - c. Reactive Hazards
3. Reactivity Worksheet (when two or more substances are involved)
 - a. Reactivity Worksheet (under “Record” menu)

Reactive information for each of the 6113 chemical entries may NOT be available. You should examine all five single substance Chemical Library sources when investigating the hazards associated with a specific substance.

NFPA Reactive Ratings

A definition of the NFPA ratings is available in the CAMEOfm Help Section, “Understanding the information in the Chemical Library”. In the CAMEOfm Chemical Library, 68 substances carry an NFPA Reactive Rating of “3” or “4”.

“No Water” is the NFPA “Special” designation for water reactive substances. In the CAMEOfm Chemical Library, 37 substances are so designated.

RIDS Section

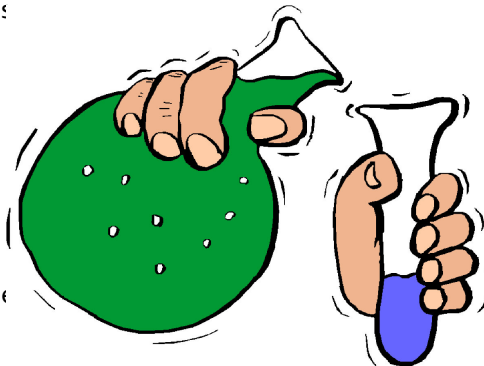
The General Description for a substance may list reactivity as a hazard.

The RIDS Reactive Hazards categorizes substances by nine different reactive types. There are 2,437 substances that feature some type of Reactive Hazards information.

The RIDS Reactivity tab organizes chemicals into three headings regarding their reactive potential. The headings are:

- ☼ Air and Water Reaction:
- ☼ Chemical Profile
- ☼ Reactive Groups

All 6113 substances in the CAMEOfm Chemical Library contain some data in the Reactivity tab, although some of those entries list the substance "non-reactive".



CAMEOfm Reactivity Worksheet

The CAMEOfm Reactivity Worksheet **should be used when two or more substances are involved**. This worksheet "predicts" potential outcomes of two substances interacting. While you may enter any number of substances to the Reactivity Worksheet, the result are ALWAYS "paired". This means that the worksheet provides predictions for mixing only two chemicals at a time.

To use the Reactivity Worksheet:

1. Select an entry from the CAMEOfm Chemical Library
2. Select the "Record" menu
3. Select "Add to Reactivity Worksheet"

A text box will appear asking if you would like to view the Reactivity Worksheet. You may select "Yes" or "Later" depending on whether you are finished selecting information to add to the Reactivity Worksheet.

After you are finished adding chemicals to the Worksheet:

1. Select the "Record" menu
2. Select "View the Reactivity Worksheet"

The predicted potential outcomes are now listed on your screen. You may print a copy using the "Make Report" function.

RESEARCHING CAMEOfm FIXED-FACILITY INFORMATION*

***Note:** *This section of the CAMEOfm Companion for Responders book is usable ONLY IF local Tier 2 report information has been entered into your CAMEOfm.*

Finding the Facility Record

The Facility Record of interest should be found in the “Facilities” module.

1. Activate CAMEOfm and select the “Facilities” module icon and scroll up or down to locate the record of interest (depending on the number of records in your CAMEOfm database, you may wish to “find” the facility using the CAMEOfm Search function).
2. Select the “Search” menu, then select “Start Search”
3. Enter the facility name in the appropriate text field and select “Search”

Where is the facility located?

1. Highlight the facility record
2. Select the “Record” button or double-click the line entry
3. Select the “Address” tab

Who can I call and what are their phone numbers?

CAMEOfm stores phone numbers in two places, depending entirely on how the data was entered.

1. Open the Facilities Module (if you have opened a different CAMEOfm module, select the “Navigator” button, then select the “Facilities” tab)
2. Open the Facility Record and select the “Phones” tab. View information, if empty
3. Select “Contacts” tab, then select the name of interest from the list and double-click
4. Select the “Phones” tab

Where is the release occurring at the facility?*

***Note:** To “interpret” the “codes” for Type/Press/Temp entries, use your mouse to “click” on the “title” (click on the word “Type” or “Press” or “Temp”). A drop-down list of code definitions will appear.

1. Open the Facilities Module (if you have opened a different CAMEOfm module, select the “Navigator” button, then select the “Facilities” tab)
2. Open the Facility Record
3. Select “Chemicals in Inventory” tab and double-click the chemical of interest from the list
4. Click the “Location” tab*

How much of this substance could be at this facility?



Click the “Physical State and Quantity” tab*.

Chemical in Inventory “Components” Tab

Many times, facilities report “mixtures” and/or “solutions” of chemicals. Information concerning those chemical mixtures may be found in the Components tab. You should always view the Components tab to determine if any additional information is available there.

***Note:** The “Amount” field found on the “Location” tab page may show “o”; however, this does NOT mean the chemical is not present at this site. Proceed to “Physical State and Quantity” tab for information concerning the amount of chemical on-site.

***Note:** To “interpret” the “codes” for “Max Code” and “Min Code” entries, use your mouse to Select the “Edit” button. Then, use your mouse to “click” on the “code number”. A drop-down list of code definitions will appear. To close without altering the Chemical record, select the “Cancel” button.

Accessing RIDS Information

1. Select the “View RIDS” button on the right side of your screen
2. Select the “File” menu and select “Close” to return to the Chemical in Inventory Record after viewing the RIDS information
3. Select the Navigator button then select the “Facilities” module to return to the Facility record; the screen should open to the Facility record of interest. If not, use the steps from above to find and open the correct record.

Viewing Facility Site Plans

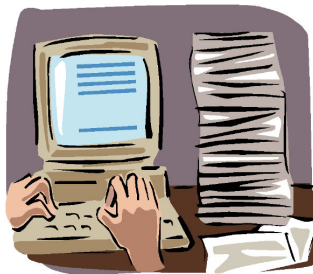
1. Open the Facility record of interest and select the “Site Plans” tab; a list of “linked” site plans for that Facility will appear. Double-click on the site plan of interest.

Facility “Notes” Tab

Additional information regarding the facility may be available from the “Notes” tab. You should always view the “Notes” tab to determine if “extra” information is stored there.

Printing Reports from CAMEOfm

Printing information from any CAMEOfm module is achieved utilizing the “File/Make Report” menu.



The “Print” menu functions identically in all CAMEOfm modules.

1. Select a record or set of records from a module
2. Select the “File” menu
3. Select the “Make Report” function
4. Set the “Make Report” options using the “data to include” boxes
5. Select the “Make Report” button
6. Select “Print”

CAMEOfm PRINT OUTPUT MATRIX

Each CAMEOfm module responds to the “File/Make Report” menu by offering you a “matrix” of print items. Generally, not all the “matrix choices” contain data, except in the Chemical Library module.

The Chemical Library operates slightly different from the other CAMEOfm modules. Chemical Library print “matrix” allows you to choose to include:

- ⚗ “Chemical ID” section
- ⚗ “RIDS” section
- ⚗ Both the “Chemical ID” and “RIDS” sections; you accomplish this by clicking on the “Select Report Type” box

COPYING TO MICROSOFT WORD OR OTHER SOFTWARE

You may “copy-and-paste” CAMEOfm reports by “highlighting” the desired text and selecting the Edit/Copy menu, then using the Edit/Paste menu in Microsoft Word or another software program.

Finding and Displaying CAMEOfm Facilities, Special Locations, and Resources on MARPLOT Maps*

DISPLAYING A SINGLE CAMEOfm RECORD

1. Open the desired CAMEOfm module
2. Select the record you wish to display in MARPLOT
3. Select the “Sharing” menu
4. Select MARPLOT
5. Select “Show On Map”

***Note:** These steps work *ONLY* if data have been entered to CAMEOfm and linked to MARPLOT objects.

DISPLAYING A “FOUND SET” OF CAMEOfm RECORDS

1. Open the desired CAMEOfm module
2. Conduct a “search” to identify the records you wish to display
3. Select the “Sharing” menu
4. Select MARPLOT
5. Select “Show All On Map”

M arplot..

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Acquiring MARPLOT Maps

WITH LANDVIEW 5

Usually MARPLOT automatically “reads” Landview maps contained on the CD-ROM. The Landview CD must be active for this to occur.

1. Insert the Landview CD-ROM or DVD in the disk drive
2. Double-click the Landview icon located on your desktop; this will open the Landview “splash screen”
3. To start MARPLOT, select the “Go To Map” button. MARPLOT should now be displayed on your screen

To display “your” county map:

1. Select the “List menu/Map List” menu
2. Type the name of your county into the “Find” box
3. Select “Find Next”; your county map should be highlighted
4. Select “Go To Map”

WITHOUT LANDVIEW 5

If you are operating MARPLOT without Landview 5, you will need to acquire your desired maps from the CAMEOfm Website.

1. Open the CAMEOfm Website
2. Select “Updated Census 2000 MARPLOT Maps available for download.”
3. Select the appropriate state
4. Select the appropriate county
5. Save the “.map” file to your computer*
6. Open MARPLOT and select the “List menu/Map List” menu
7. Select the “Find New Map” button
8. Browse to where the “saved” .map file is located and double-click

***Note:** You may wish to create a MARPLOT maps folder located in your c: drive. This folder can store for many MARPLOT maps.

The selected map is added to the MARPLOT Map List. Highlight the map name and select “Go To Map” to display on your screen.

Displaying the County Map in MARPLOT

To open your county map:

1. Activate MARPLOT
2. Select the List menu
3. Select "Map List"
4. Scroll and select your county from the map list
5. Select "Go To Map" button*

***Note:** Do not select the "OK" button. The "OK" button simply returns you to the previous view.

WHAT DO I DO IF I CAN'T FIND MY COUNTY MAP IN THE MARPLOT MAP LIST?

1. First, if your computer usually "reads" the maps from the Landview CD-ROM, make sure the Landview CD is in the CD drive tray.
2. If your computer has the maps installed to the hard drive, reboot your computer. This may or may not resolve the problem.

If you are using a Landview CD-ROM, the link between MARPLOT and Landview maps is sometimes dysfunctional. The following steps will usually restore the link. From the "Map List" box:

1. Select the "Find New Map" button
2. Use the resulting "browse" box to browse to your CD-ROM drive
3. Select the folder listed; it is usually named "lv5", but may have any name
4. Open the "MAPS" folder
5. Open the "tiger" folder
6. Open the state folder
7. Select the appropriate map from the available folders; the maps are listed alphabetically, but have "numeric" names. You may need to install several maps to determine which "number" is the correct choice for your county
8. Open the "NAME.MAP" file; this should return you to the MARPLOT "Map List" box.
9. Highlight your county map and select "Go To Map"

LOCATING THE RELEASE SITE IN MARPLOT

Using a CAMEOfm Record to MARPLOT Link (Map Data Tab)

If your CAMEOfm suite has had CAMEOfm records linked to MARPLOT objects, the following steps will transport you to the desired map point.

To determine if the CAMEOfm record is linked to MARPLOT:

1. Open the desired CAMEOfm record
2. Select the “Map Data” tab
3. See if the “record is linked to MARPLOT” box is checked

If the CAMEOfm to MARPLOT link does exist:

4. Activate the appropriate CAMEOfm Module (Facilities, Special Locations, Routes, Resources)
5. Select the “Sharing” menu
6. Select “MARPLOT”
7. Select “Show On Map”

Using Lat/Long Coordinates (Go To Lat/Long Function)

1. Activate MARPLOT
2. Select the “View” menu
3. Select “Go To Lat/Long”
4. Enter the coordinate values*

***Note:** MARPLOT reads either Deg/Min/Sec or Decimal Degrees format. The “Go To Lat/Long” box allows you to select the desired format.

Using the MARPLOT Search Engine to Search for an Address

To search for a known address:

- 1. Select the List menu
- 2. Select “Search”
- 3. Create a search as shown below (“main” is used only as an example street name)

Search Criteria

Search for objects:

with names that start with...

main

Layer(s) to search:

Individual Layer...

Roads

Map(s) to search:

Maps in View

Search

Cancel

Help...

replace previous collection

- 4. Select the “Search” button
- 5. Highlight a road segment from the resulting list

Search Collection

Number of objects in collection: 33

Object Name	Layer	Place/Map
✓ Main	Roads	User's Map
W Main	Roads	2000
✓ N Main Ave	Roads	San Antonio city
✓ S Main Ave	Roads	San Antonio city
✓ Main Plz	Roads	San Antonio city
✓ S Main Plz	Roads	San Antonio city
✓ Main St	Roads	Caddo County, OK
✓ Main St	Roads	2050
✓ Main St	Roads (Major)	6200
✓ Main St	Roads	8750, ...
✓ Main St	Roads	12050
✓ Main St	Roads	13000

☐ make all other objects on these layers invisible

Save Collection...

Intersections

Show All on Map

Load Collection...

Addresses

Show on Map & Zoom

Help...

Show on Map

Close

6. Select the “Addresses” button
7. Highlight the road segment range containing the desired address; if no correct segment is displayed, select the “Cancel” button, then select a different road segment and look for the desired address range
8. Continue until you find the desired address range
9. Select “Show on Map and Zoom”

The road segment containing the desired address will be “selected” on you MAPLOT screen.

To examine the particulars of the “selected” road segment:

10. Select the “Objects” menu
11. Select “Segment Settings”

This will display information related to the selected road segment.

Segment Settings

Segment: 1 of 1
 of object: W Main
 on layer: Roads
 of map: Caddo County, OK

Addresses on North side: 498 400
 Addresses on South side: — —

ZIP code on North side: 73005 ZIP code on South side: —

Class: A73 alley

TIGER line ID: 92450528 TIGER version: 0301

To search for a known street intersection:

1. Repeat Steps 1– 5 from page 38
2. Select the “Intersections” button
3. Highlight the desired intersection from the resulting list
4. Select “Show on Map and Zoom”

Using the Landview Address Finder

To search for a known address plus a known zip code:

1. Activate Landview and go to the Landview Home Screen
2. Select the "Address Finder" button
3. Enter the street name and zip code
4. Select "Find Street"
5. Repeat Steps 6 - 11 from page 39

LOCATING THE RELEASE SITE IN MARPLOT

Using Zoom In/Zoom Out Tools/Hand Tool

1. Select the "Zoom In" tool
2. Move the cursor to the approximate release point on the map
3. Left-click the mouse
4. If needed, adjust your screen with the Hand tool
5. Repeat as needed

Using "Quick Zoom" Function

1. Select the "Zoom In" tool
2. Move the cursor to the approximate release point on the map
3. Left-click and "drag" the mouse; a rectangle area will appear
4. Release the mouse; your screen will resize to the dimensions of the Quick Zoom area

Using the Set Scale Function

1. Select the pointer tool
2. Move the cursor to the approximate release point on the map and left-click
3. Select the "View" menu
4. Select "Set Scale"
5. Enter "1" mi; your screen will resize to a one-mile width display with the selected point in the center.

MARKING THE RELEASE SITE IN MARPLOT

Here are two methods of “marking” the “release location” in MARPLOT:

Set Focus Point Function

1. Activate MARPLOT
2. Place your cursor on the release point-and-click
3. Select the “View” menu
4. Select “Focus Point”
5. Select “Mark Focus Point”; the marked point will remain as designated until “cleared” by using the “View/Marked Point” menu.

The selected point is now the “focus point” which allows use of other functions found in the “View/Focus Point” menu.

Opening a New Layer

1. Activate MARPLOT
2. Select the List menu
3. Select “Layer List”
4. Select the “New” button
5. Enter a new layer name (duplicate layer names are not allowed)
6. Set to the “User’s Map” selection
7. Select “OK”
8. Use the draw tools to “mark” the release site

SELECTING WHICH “LAYERS” ARE DISPLAYED

Resetting the Layer List (Restore the Basic Map Display)

With Landview 5 active:

1. Open the List menu
2. Select “Layer List”
3. Select the “Global Hide” button (immediately below the “Hide” header text)
4. Select “Set to Default Settings” button

If Landview 5 is not active:

1. Open the List menu
2. Select “Layer List”
3. Select the “Global Hide” button (immediately below the “Hide” header text)
4. Scroll down the page and set the following layers to “Range”
 - a. Counties
 - b. States
 - c. Railroads
 - d. Roads
 - e. Roads (Major)
 - f. Shoreline
 - g. Water

ADDING YOUR OWN OBJECTS TO THE MAP

In MARPLOT, everything you see on the map is an “object”. All “objects” are stored in “layers”, which are stored in “maps”.

To add your own objects to MARPLOT:

1. Create or unlock a layer (when creating a layer, make sure to “set” it to the “User’s Map”)
2. Use the left side “draw tools” to create the desired object

Creating a New Layer

1. Select the List menu
2. Select “Layer List”
3. Make sure all the existing layers are “locked” (the padlock on the left side of the “Layer List” box should be shown as closed)
4. Select the “New” button
5. Name the layer (duplicate names are not allowed)
6. Select “OK”

Adding Objects to Layer

1. Perform either of the following actions:
 - a. Unlock the layer where you wish to add objects
 - b. Create a new layer (see Steps 1-6 above)
2. Select the desired “draw tool” from the left side toolbar
3. Move your cursor to the screen area where you wish to add the object
4. Use the “draw tools” to create objects

Draw Tool Operations

Symbol Tool

1. Place the cursor at the desired spot and click; this will open the “Object Settings” box where you should name the object
2. Check to see if it is “Set” to the desired layer
3. Set to “User’s Map”
4. Set “Place” to “User’s Map”

5. Use the drop-down list to set “Color”
6. Use “Set Symbol” button to select symbol icon

Rectangle Tool and Circle Tool

1. Select the desired draw tool
2. Move the cursor to map area; “click-and-drag” so that a rectangle area appears
3. Release the mouse; the “Object Settings” box will appear
4. Set “map” and “place” to “User’s Map”
5. Set color, line style, and fill pattern as desired
6. Select “Position/Size” button to “determine or set exact area”

Polyline Tool

1. Select the “Polyline” tool
2. Move cursor to map spot where you want the line to begin and click-and-drag; a line will appear on the map; click-and-drag again. This action allows you to change direction.
3. Repeat click-and-drag until finished
4. Double-click to end line drawing
5. Use “Object Settings” box to set line attributes*

Polygon Tool

Use of the “Polygon” tool requires the same operation as using the “Polyline” tool.

1. Double-click at the end of drawing process creates an “enclosed” object; a polyline object includes the interior area as part of its area





***Note:** Drawing an object with the polyline tool does not create and enclosed area! Use the polygon tool instead.

Drawing Exact Size Circles

1. Select the “circle” tool
2. Move cursor to map location where you wish to create a circle
3. Click-and-drag to create any size of circle
4. Select “Position/Size” from the “Object Settings” box
5. Enter the desired radius of circle to the “radius” box
6. Select “OK”

Drawing Objects “From Center” or “From Corner”

Four of the MARPLOT tools may be set to “draw” from either the “corner” or the “center”. These four tools are:

-  Pointer Tool
-  Zoom In Tool
-  Rectangle Tool
-  Circle Tool

To set any of these for either “corner” or “center”, double-click the desired tool and select desired draw option.

CHANGING OBJECT COLOR, SYMBOL, SIZE, AND FILL PATTERN

Setting Object Display as Identical for an Entire Layer

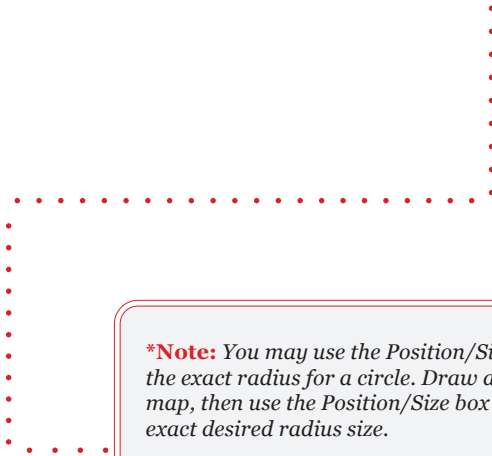
1. Select the List menu
2. Select "Layer List"
3. Scroll and highlight the layer you wish to edit
4. Set the "checkmark" to the "2 blue flags" box on the right side of the "Layer List" box

Allowing Different Object Display Characteristics within a Layer

This process is the same as above, except you will set the layer "checkmark" to the "1 blue flag, 1 red flag" box.

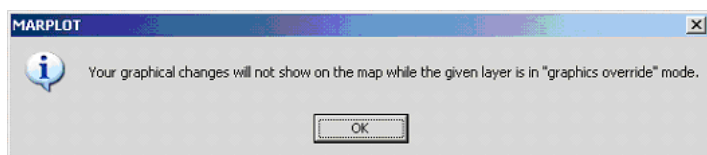
Determining the Area of a Polygon or Rectangle

1. Double-click the desired object
2. Select the "Position/Size" button from the "Object Settings" box; the exact area enclosed in the object is given*



***Note:** You may use the Position/Size function to set the exact radius for a circle. Draw any size circle on the map, then use the Position/Size box the enter your exact desired radius size.

Graphics Override Function

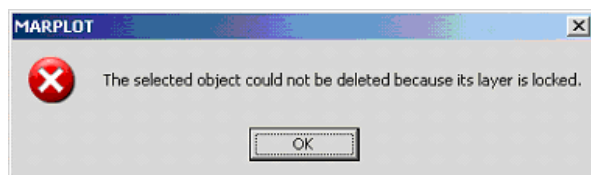


This message is telling you the layer you are working in is set to the “2 Blue Flags” box; meaning all objects in this layer will have the same display attributes.

Deleting Objects from MARPLOT Maps

1. Click on the object you wish to remove
2. Select the “Delete” button on your computer keyboard

If this message appears, you need to “unlock” the layer for this object.






To determine the layer location for any object, double-click on the object. This will display the “Object Settings” box for that object, which lists the layer where this object is stored.

MARPLOT SEARCHES

Basic MARPLOT Search Operations




MARPLOT searches are **always** formatted as: “search for objects in layers on maps.

The goal of a MARPLOT search is one of the following:

-  to “**find**”
-  to “**display**”
-  to “**select**”

an object or group of objects.

MARPLOT search criteria is defined by your selection of one of the following:

-  Search Operator
-  Search Layer(s)
-  Search Maps(s)

MARPLOT Search Operators

MARPLOT Search Operator	Search Definition	User Selected Parameter	Examples
with any name	selects ALL Objects within the selected Layer(s)	none	Display all Schools; Select CAMEO Facilities; Find all Populated Places
with names that start with, with names that contain	searches for Objects defined in the Search field	Object Name(s)	Find a Street Address; Display everything with name St. Francis
that are within, that are not within	sets Search area as an area surrounding an Object(s)	Defined Distance	Display Nearest Hospital; Select Available Airfields; Find Population along a selected Roadway
inside of or touched by, not inside of or touched by	sets Search area as area enclosed by an Object(s)	Search Area	Select At-Risk Facilities; Produce Population Counts; Find all unaffected Hospitals

MARPLOT Search Layer Options

Layers to Search Operator	Search Definition	User Selection
All layers	Searches all layers	none
Multiple layers	Searches only user-selected layers	Must select exact layers to search
Individual layer	Search only one layer	Select only one layer to search

MARPLOT Search Map Options

Maps to Search Operator	Search Definition	User Selection
All maps	Search all listed maps	none
Maps in view	Searches only currently visible maps	none
Selected maps	Searches user-selected maps	Must select exact maps to search, including census and USGS maps

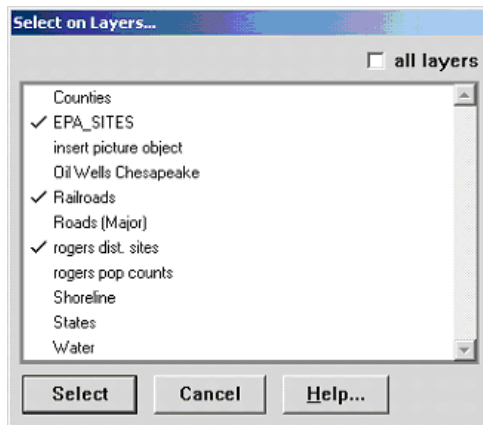
The remaining search criteria is to either:

- ⚙ Replace previous collection (NEW search)
- ⚙ Add to previous collection (OR search)
- ⚙ Subset of previous collection (AND search)

Quick Search Function

1. Select the pointer tool
2. Point at the map area you wish to search
3. Click-and-drag; a rectangle or circle area will appear on the screen
4. When the area you wish to search is contained in the circle or rectangle, release the mouse

The “active” layers are displayed in a box. Use your mouse to “select” the layer(s) you wish to include in your search. In the example box below, three layers have been “selected” to include in the search.



5. Select the “Select” button

All objects from the indicated layer(s) will now be “selected”. * . . .

***Note:** “Quick Search” conducts an “inside of or touched by” search. The “currently selected object” is the rectangle or circle “drawn” when you left-click and drag with your mouse.

Searching the Area for CAMEOfm Records

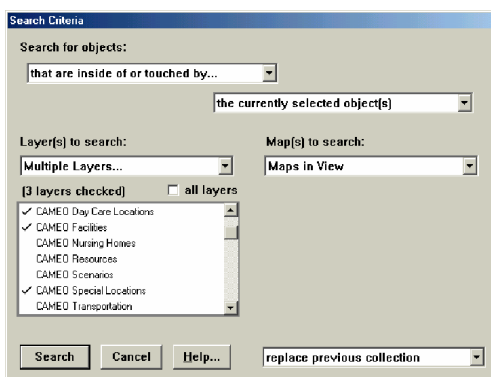
Custom MARPLOT Search

If CAMEOfm records have been “linked” to MARPLOT objects, you may search any user-defined area for those CAMEOfm records. Traditionally, CAMEOfm records are locations such as:

- ☼ Chemical Facilities (Tier 2 reporters)
- ☼ Places with “special” populations (i.e., Hospitals, Nursing Homes, Day Care Centers, Prisons)
- ☼ Places with available resources (i.e., Fire Stations, Police Stations, Public Works Yards, EMS Stations)

Every CAMEOfm system is unique. You must **KNOW** what records are available via CAMEOfm/MARPLOT in order to effectively search for them.

The example below searches for CAMEOfm records in layer(s) named CAMEO Facilities, CAMEO Special Locations, and CAMEO Day Care Locations. **YOUR SYSTEM WILL NOT INCLUDE THESE SPECIFIC LAYERS UNLESS SOMEONE HAS CREATED THEM!**



Notice the search operator is “that are inside of or touched by”. This will select only objects inside the user-specified search area. Also notice the layer(s) to search is “Multiple Layers”. This allows you to search several MARPLOT layers simultaneously.

Searching the Area for Landview Records

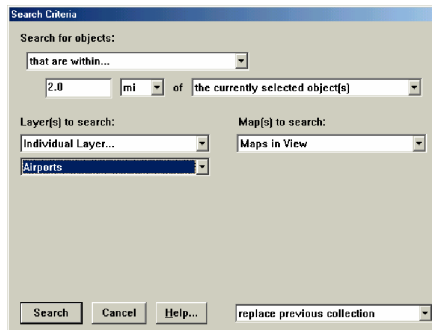
Custom MARPLOT Search

If you are using Landview, you may search for Landview records within any user-specified area. Landview records are found in five layer groups:

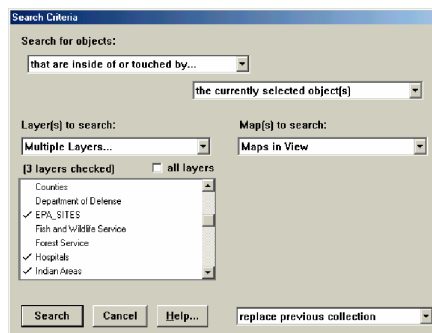
- ✿ Census 2000 Demographic Layers
- ✿ Census TIGER/Line 2000 Layers
- ✿ EPA Layers
- ✿ USGS – Federal Lands Layers
- ✿ USGS – GNIS Layers

Here are two example searches:

1. Search for any airport within two miles of the release point



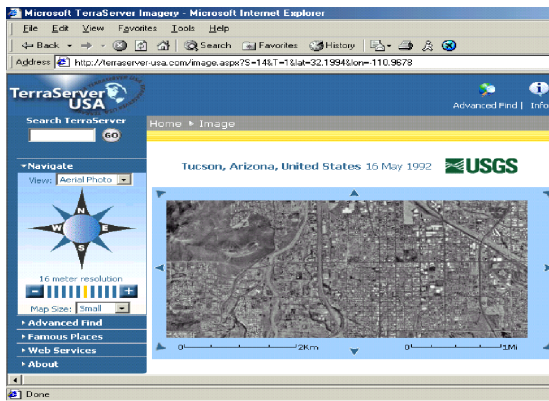
2. Search for EPA Sites, Hospitals, and Indian Areas within the user-selected circle, rectangle, or polygon area



6. To view the topographic map for the area, select “View USGS Digital Raster Graphic or TopoZone.com”
7. To view the aerial photo for the area, select “View USGS Digital Orthophoto Quadrangle (DOQ)”

The aerial photo in the example below is “South Tuscon”.

8. To enlarge the aerial photo, select the “Map Size” drop-down list on the left side of the screen and change to “Large”
9. To “Zoom In” to a location, use your cursor to point at the area you wish to zoom in and click.



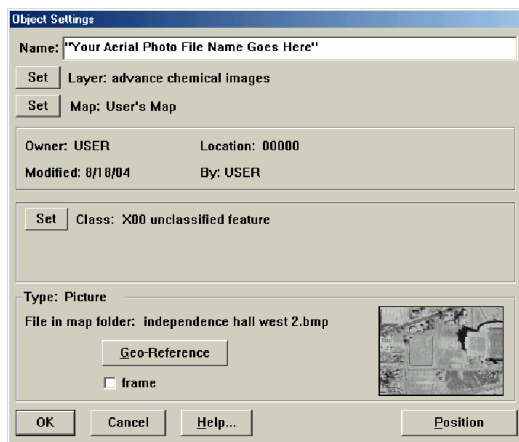
SAVING THE AERIAL PHOTO TO YOUR COMPUTER

1. Select the map area you wish to “save”
2. Right-click on that area with your mouse
3. Select “Save Picture As” and use the browse box to name and save the photo to your computer
4. If you are going to display the photo to MARPLOT, make sure to save it as a bitmap (.bmp) file

Displaying an Aerial Photo on MARPLOT Map

MARPLOT will display any bitmap image file. Therefore, any aerial photo shot that has been “saved” as a bitmap file can be shown on a MARPLOT map.

1. Activate MARPLOT
2. Set the viewscreen to the approximate area of the aerial photo you wish to display
3. Open or create a MARPLOT layer
4. Select the “Edit” menu
5. Select “Insert Picture Object”
6. Select “Use Existing Map”
7. Select “File”
8. Use the “Choose Picture File” browse box to locate the photo and double-click on the bitmap photo file



9. You will now see the “Object Settings” box
10. Select “OK”; the bitmap image should now display on the MARPLOT screen

Moving and Resizing the Inserted Photo

1. Select the photo (it should be “surrounded” by four “red squares”)
2. To move, place your cursor inside the photo area and click-and-drag with your mouse
3. To resize, place your cursor on any of the “red squares” and click-and-drag with your mouse

SELECT THE AERIAL PHOTO FROM MARPLOT

The aerial photos are linked to Landview USGS GNIS records. You may “select” any single GNIS record from MARPLOT and move to the internet aerial photos.

1. Activate MARPLOT
2. Set your view for the area you wish to see the aerial photo
3. Select the “List/Layer List” menu
4. Set the USGS GNIS Layer to “Show”
5. Select any GNIS symbol from the map
6. Select the “Sharing” menu
7. Select “Landview/Get Info”; this should activate the selected GNIS record in Landview
8. Select the “WebLink” button

Displaying a CAMEOfm Facility Site Plan in MARPLOT

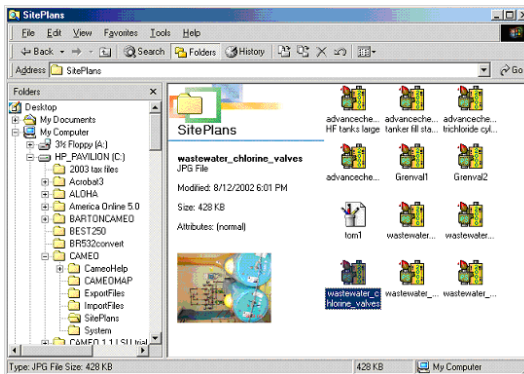
MARPLOT will display any bitmap image file. Therefore, any site plan that has been “saved” as a bitmap file can be shown on a MARPLOT map.

If the site plan has been saved as a .jpg, .tif, or .gif file, use a photo editor program to change it to a bitmap file. Nearly all computers have a photo editor software installed. Some common ones are Paint, Photo Studio, and PhotoShop. Any of these should allow you to change a jpeg (.jpg) or gif (.gif) to a bitmap (.bmp) file.

Many CAMEOfm users have entered site plans to CAMEOfm and linked to the Facility or Special Location record. Those site plans will be located in the CAMEOfm “Site Plans” folder. The following is one method of displaying those site plans in MARPLOT.

To find the site plan:

1. Minimize all active screens
2. Right-click on the “Start” button, found on the lower left side of your computer
3. Select the “Explore” button
4. Find and “open” the CAMEOfm “Site Plans” folder



5. If needed, change the desired site plan to a bitmap file; then close the “Site Plans” folder
6. Activate MARPLOT
7. Open or create a MARPLOT layer
8. Select the “Edit” menu
9. Select “Insert Picture Object”
10. Select “Use Existing Map”
11. Select “File”
12. Use the “Choose Picture File” browse box to located the photo in the CAMEOfm “Site Plans” folder; this is usually on your C:/ drive
13. Double-click on the bitmap photo file
14. You will now see the “Object Settings” box
15. Select “OK”

The site plan file should now be displayed on the MARPLOT map. The image may be moved or resized (see *Moving and Resizing the Inserted Photo*).*

***Note:** The Insert Picture Object function works for any bitmap file. For more complete instructions on methods to “autolocate” bitmap files inserted into MARPLOT, see *CAMEO Companion for Planners*.

SAVING AND PRINTING MARPLOT MAPS

File/Print Function

1. Activate MARPLOT
2. Select the “File” menu
3. Select “Print”

You may select “Landscape” or “Portrait”; it is recommended that you print both types to decide which is preferred.

4. Close Print Setup
5. Select “File” menu
6. Select “Print”

Your printer should “print” an exact copy of your screen.

Save as a Picture Function

1. Select the “File” menu
2. Select “Save as Picture”
3. Use the browse box to name and save the file

This is now a bitmap file, you may treat it as any other image file (i.e., print, edit, or e-mail).*

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***Note:** You may “change” the bitmap file to a .jpg or .gif file using a photo editor software.

MARPLOT Shortcuts

Note: This section is reprinted from the Introduction to CAMEOfm Course materials used by the author. As such, the “format” for this section is different than previous sections of the CAMEOfm Companion for Responders book. It is included to demonstrate some MARPLOT functions that you may find useful.

MARPLOT features several built-in functions which access different menu selections. This unit will introduce you to some of those built-in functions.

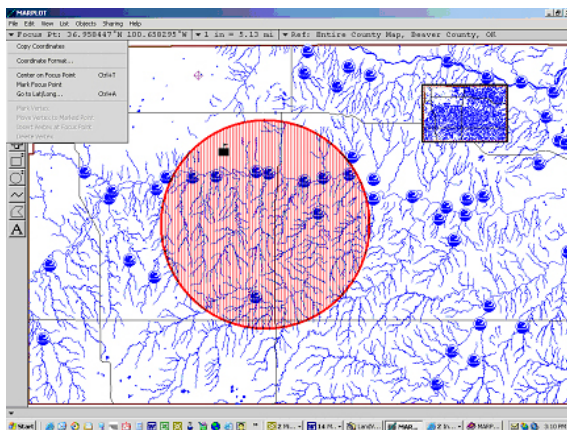
TITLE LINE TOOLBAR

Just below the menu bar are three drop-down menus that access several other menu items. They are:

- ☼ Focus Point
- ☼ Scale Display
- ☼ Reference Info

A complete discussion of these menu bars is given in the Help section. This unit focuses on some of the more common usages of these “shortcuts”.

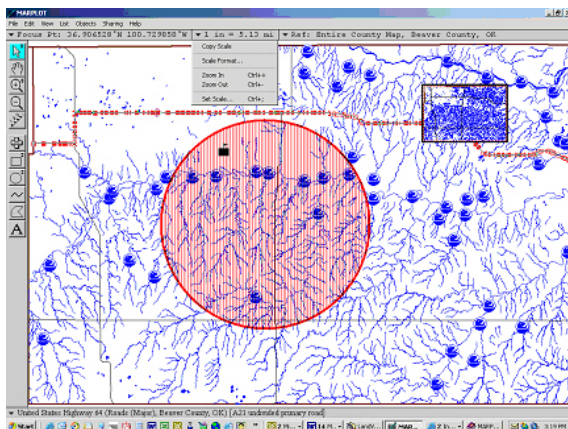
1. Use the “Selection” tool to open the “Focus Point” drop-down menu. It should look like this.



2. Select “Coordinate Format”. Notice it is **exactly the same screen as seen earlier in the File/Preferences/Latitude/Longitude dialogue box!** You may now “set” or “change” Lat/Long format identically as shown in the earlier course unit.
3. Close that box and select “Go To Lat/Long”. Notice you **again have the option of selecting your Lat/Long format!** Additionally, you have the option of entering a specific Lat/Long value, and MARPLOT will reposition the “cursor” mark to that Lat/Long place. **This exact same function can be found under the View menu.**

Notice the bottom four items are inactive. These may be used ONLY when a “line” object is selected.

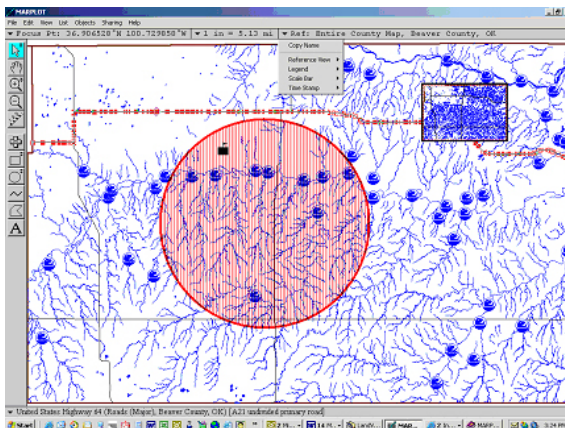
4. Use your mouse to click on the “Scale Display” drop-down menu.



Here are more MARPLOT functions seen in earlier course units.

1. Select “Scale Format”. You are again sent to the File/Preferences menu! Do you recognize the “Scale Format” text box?
2. Select “Zoom In”; Notice this works identically to the “Zoom In” tool located on your left side toolbar.
3. Select “Set Scale”; Isn’t this text box identical to the one you used earlier in the View menu unit?
4. Use you mouse to open the remaining title line drop-down menu.

Do you recognize these menu items? Aren't most of these in the View menu?



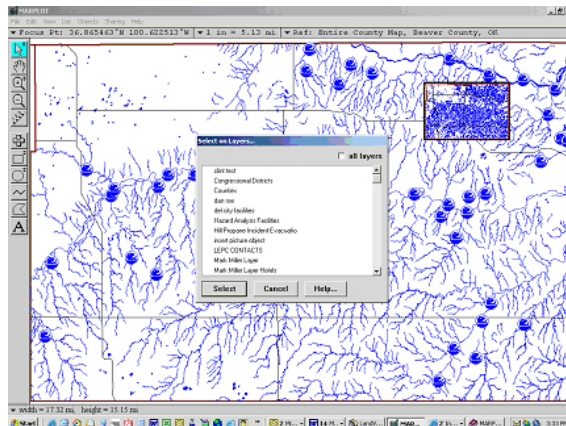
These are all shortcuts to allow you to utilize MARPLOT more efficiently. **These are not separate functions!** They simply access specific menu items.

Two shortcuts are available from the left side toolbar. Notice that two of the five upper tools have “drop-down menu” indicators. They are the “Selection” tool and the “Zoom In” tool.

1. Double-click on the “Selection” tool. Notice you can now choose between “rectangle” or “circle”
2. Double-click on the “Zoom In” tool. Your choices are now “from corner” or “from center”. Both of these are short cuts to the File/Preferences/Tools menu.

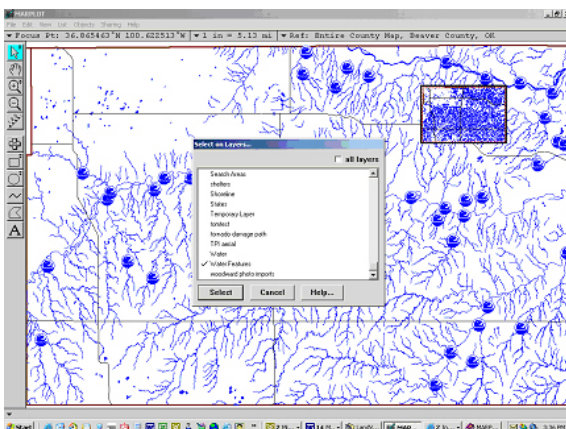
Let's see how these two functions are used:

1. Use your mouse to highlight the “Selection” tool
2. Move your mouse to any spot on the map
3. Click once and hold the mouse left button down
4. Drag the mouse; a “dotted line” rectangle should appear on the screen
5. Release the mouse button after dragging for a while. A “Select on Layers” text box should appear.



Again, your “list” inside the “Select on Layers” box will be different than the one shown here. You may now “choose” which layers contain objects you wish to “select” by simply using your mouse to “check” the desired layers. This process is also called a “Quick Search” because it allows you to “select” a group of objects in much the same way as a search.

1. Use your mouse to “check” the Water Features layer



2. Select the “Search” button. Are all the Water Features contained inside your drawn “box area” now “selected”? They should be.
3. Double-click on the Selection tool and change to the “circle”
4. Repeat the process as above, only this time you will be searching inside of a circle

The “Zoom In” tool also has a shortcut to the File/Preferences/Tools menu.

1. Use the mouse to highlight the “Zoom In” tool
2. “Click-and-drag” as in the above example

When you release the mouse button, your display screen is resized to fit the rectangle drawn by the “Zoom In” tool!

3. Change the “Zoom In” tool to “from Center” and repeat the exercise.

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Setting ALOHA Defaults (Site Data Menu)

CHOOSING A LOCATION FROM THE ALOHA LOCATION LIST

1. Activate ALOHA
2. Select the "Site Data" menu
3. Select "Location"
4. Scroll and select the "city" closest to the release point

ADDING YOUR OWN LOCATION TO THE ALOHA LOCATION LIST

To ADD your own location to the ALOHA City List, you will need to know:

-  Lat/Long in Degrees/Minutes
-  Elevation in Feet or Meters

*** Note:** Remember to select the correct "state" from the list.

1. Open the ALOHA "Location List" box (see above)
2. Select "Add" button
3. Enter data to available text fields*
4. Select "OK"

SETTING PARAMETERS FOR BUILDINGS DOWNWIND OF THE RELEASE POINT

1. Select the "Site Data" menu
2. Select "Building Type"*
3. Only use "No. of air changes per hour" if you can accurately determine that information

SETTING THE DATE AND TIME

ALOHA defaults to "real time" taken from your computer clock. You may set a constant time, either a "future" time (for planning purposes), or a "past" time (for accident investigations).

*** Note:** This is for buildings DOWNWIND of the release, not a building from which the release occurred. ALOHA uses the "Building Type" information in its Indoor Concentration/Dose calculations.

ALOHA Inputs

ENTERING RELEASE INFORMATION: SETUP MENU

Selecting the Chemical

***Note:** The ALOHA 5.3 “Solutions” list incorporates the NOAA “Evaporation Calculator” for five chemicals.

ALOHA Chemical Library

1. Select the “Setup” menu
2. Select “Chemical”
3. Choose “Pure Substance” or “Solutions”*
4. Scroll (or use Quick Typing from below) to locate the desired chemical
5. Select “OK”

“Quick Find” Typing Function

1. Open the ALOHA Chemical Library
2. Quickly type the first three (3) or four (4) letters of the chemical name*

***Note:** You may add to or modify substances in the ALOHA Chemical Library (see CAMEOfm Companion for Planners/Managers).

Using the CAMEOfm RIDS to ALOHA Link

1. Find the desired chemical in the CAMEOfm Chemical Library
2. Select the “Sharing” menu
3. Select “ALOHA”/“Select this Chemical in ALOHA”




***Note:** In some cases, the CAMEOfm/ALOHA “Sharing” menu allows you to navigate between the RIDS information and the ALOHA program. However, you can achieve the same functionality by selecting the substance in both programs and using the bottom task bar to transport between CAMEOfm and ALOHA.

What is Being Released? Chemical Menu

1. Select the "Setup" menu
2. Select the desired chemical from the ALOHA Chemical Library
3. Select "OK"

What's the Weather Like? Atmospheric Menu*

ALOHA allows for three types of weather data entry. These data types are:

-  User-input of weather conditions
-  Connection to any of a number of SAM or MET stations; a list of vendors with ALOHA-integrated portable weather stations is available on the CAMEOfm Website, under the Support Forum link
-  ALOHA's built-in "fake" SAM station (**use for training purposes only**)

Manually Entering Weather Conditions

1. Select the "Setup" menu
2. Select "Atmospheric"
3. Select "User Input"
4. Enter user-estimated weather conditions

Using a "MET" or "SAM Station"

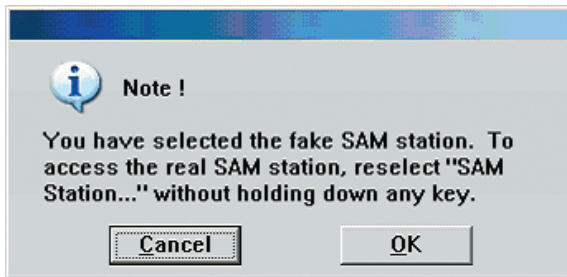
1. Select the "Setup" menu
2. Select "Atmospheric"
3. Select "SAM station"
4. Select the appropriate COM option (Serial Port); usually this will be COM-1
5. Select "OK"
6. Enter Inversion, Ground Roughness, and Station Height data
7. Enter Cloud Cover and Humidity data

ALOHA will take approximately five minutes before displaying weather data. You must wait for the first weather data transmission before continuing with Source Data input.

Using the ALOHA “Demo” SAM Station

1. Select the “Setup” menu
2. Select “Atmospheric”
3. Depress and hold the Control (CTRL) key on your computer keyboard
4. Select “SAM Station”

You should see this box on your computer screen.



Continue with ALOHA screens as if enabling a “real” SAM station.*

***Note:** Use “fake” SAM station for training purposes only!

HOW MUCH AND HOW FAST IS THE PRODUCT BEING RELEASED? SOURCE MENU

***Note:** This is critical input information for ALOHA. ALOHA depends on accurate release rate input data to accurately produce downwind concentration estimates. The more accurate the Source Input Data, the more accurate ALOHA's output data.

The Direct/Instantaneous Source option generally represents a "worst-case" scenario. You must enter only the total amount released.

Using the ALOHA "Direct" Source Option when only a "Total Amount Released" is Known*

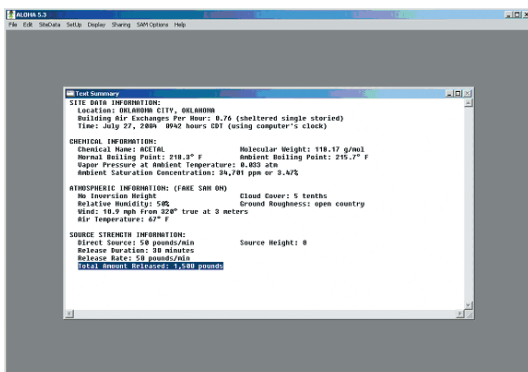
1. Select the "Setup" menu
2. Select "Source"
3. Select "Direct"
 - a. Select desired units
 - b. Select **Instantaneous**
 - c. Enter estimated total release amount
 - d. Enter Source Height

Using the ALOHA “Direct” Source Option when the “Total Amount Released” and “Total Time Elapsed” are Known* * *

***Note:** Using the Direct/Continuous Source option requires you to “know” the amount of product released during a specific time period, and will produce more “accurate” results than the Direct/Instantaneous Source option. You may find the Continuous Source option particularly useful for review of past chemical spills, when the release amount and time duration may be known or effectively estimated.

1. Select the “Setup” menu
2. Select “Source”
3. Select “Direct”
 - a. Select desired units
 - b. Select “Continuous”
 - c. Calculate the release rate
 - i. Divide total amount released by “minutes” (e.g., 1500 pounds divided by 30 minutes = 50 pounds per minute
 - ii. Enter user-calculated release rate

4. Select “OK”
5. Review Text Summary/Source Strength information to ensure Total Amount Released is correct.



Using the ALOHA “Puddle” Source Option

General “puddle” releases require you to “know” the puddle surface area (size) and any one of these three parameters:

- ☢ **Gallons, Liters, or Cubic Feet of Product:** Use “volume of puddle”
- ☢ **Pounds, Grams, or Tons of Product:** Use “mass of puddle”
- ☢ **Average Puddle Depth:** Estimate puddle on flat surface as 0.5 inches

Storage Tanks with Containment

You may utilize a “puddle source” when a product is released into a containment area. However, the “Tank Source” option also allows you to specify containment area dimensions, and may more accurately estimate release data (see *Tank Source*).

Using the ALOHA “Tank Source” Option

Tank Source can be used for either gas or liquid substances. Tank Source requires you to know or estimate:

- ✿ **Tank Dimensions:** length, diameter, and capacity
- ✿ **Physical State of Chemical:** liquid or gas
- ✿ **Amount in Tank:** pounds, gallons, or cubic feet; or tank pressure
- ✿ **Release Point Dimensions:** hole size or valve size*

Tank Source for “Gases”

1. Select the “Setup” menu
2. Select “Source”
3. Select “Tank”
4. Select “Tank Type”
5. Enter any two of the following (for spherical tanks, enter only either “Diameter” or “Volume”)
 - a. Diameter
 - b. Length
 - c. Volume
6. Select “OK”
7. Select “Tank contains gas only”
8. Enter appropriate temperature value
9. Enter either Tank Pressure or Tank Volume
10. Enter Hole Size and Location*

***Note:** ALOHA will automatically compute many of the tank and amount parameters based on your inputs. It is not necessary for you to “know” values for all ALOHA Tank Source input fields.

***Note:** Many gaseous substances are stored as a “liquid under pressure”. Some common ones are Chlorine, Propane, Ammonia. ALOHA considers these chemicals “Liquids”. You should NOT model these as “gases” in ALOHA (see “Liquefied Gases”).

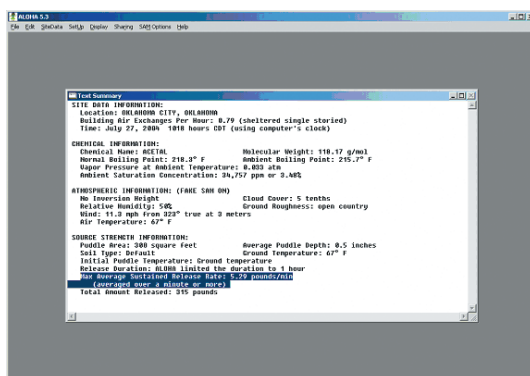
Tank Source for “Liquids” and “Liquefied Gases”

1. Select the “Setup” menu
2. Select “Source”
3. Select “Tank”
4. Select “Tank Type”

5. Enter any two of the following (for spherical tanks, enter only either "Diameter" or "Volume"):
 - a. Diameter
 - b. Length
 - c. Volume
6. Select "OK"
7. Select "Tank contains liquid"
8. Enter any of the four available fields:
 - a. Mass
 - b. Volume
 - c. % Full
 - d. Adjust Slider Bar
9. Enter Hole Size and Location

For Tanks Containing Liquids with Containment Area

The final input screen for liquids allows you to input "puddle parameters", including type and size of any "dike" or "containment area".



You may input dimensions of a containment area surrounding a tank as either a "diameter" or "area", and ALOHA will compute a release duration based on those parameters. The screenshot above lists a "containment area" expressed as "200 square feet".

ALOHA Outputs: Display Menu

THE ALOHA “3 LOC VALUE” FOOTPRINT

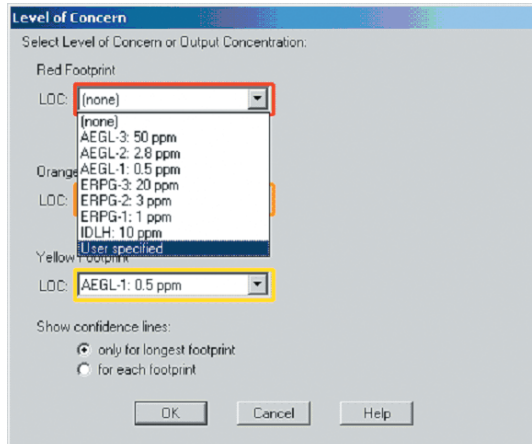
1. Select the “Display” menu
2. Select “Footprint”
3. Set the LOC values, if desired
4. Select “OK”*

***Note:** ALOHA version 5.3 automatically sets for three LOC values. You may select to display one, two, or three footprints by changing the LOC values.

For more information on Level of Concern choices, see NOAA website, Level of Concern Page at <http://response.restoration.noaa.gov/comeo/locs/LOCpage.html>.

Changing the Level of Concern: Temporary (Display/Footprint menu)

1. Select the “Display” menu
2. Select “Footprint”
3. Click on the drop-down arrow for each LOC value
4. Select desired “LOC value” from the drop-down list



5. Select "user specified"
6. Enter your chosen LOC values
7. Select "OK"

Changing the Level of Concern: Permanent (ALOHA Chemical Library menu)

1. Select the "Setup" menu
2. Select the desired chemical from the ALOHA Chemical List
3. Select "Modify"

4. Select "Default LOC-1 (Yellow)"
5. Enter desired LOC value
6. Set units to either "ppm" or "mg/(m³)"
7. Repeat Steps 4 - 7 for both LOC-2 (Orange) and LOC-3 (Red)*

***Note:** This process will permanently set the LOC to user-specified concentration values. The "largest" LOC value MUST be used for LOC-3 (Red); the smallest LOC value must be entered to the LOC-1 (Yellow) option.

Displaying Only One Footprint

1. Select the “Display” menu
2. Select “Footprint”
3. Click on the drop-down arrow for the “LOC-1 (Red) Footprint”
4. Set to “none”
5. Repeat Steps 3 and 4 for the LOC-2 (Orange) Footprint
6. Set the “LOC-3 (Yellow) Footprint LOC” to the desired value

Level of Concern

Select Level of Concern or Output Concentration:

Red Footprint
LOC: (none)

Orange Footprint
LOC: (none)

Yellow Footprint
LOC: AEG1-1: 0.5 ppm

Show confidence lines:
☒ only for longest footprint
☐ for each footprint

OK Cancel Help

7. Select “OK”

ALOHA Time-Dependent Information: Concentration, Dose, Source Strength

SETTING AND VIEWING THE CONCENTRATION AND DOSE GRAPHS IN ALOHA

There are two methods from establishing the concentration and dose points in ALOHA.

Method 1:

1. Select the "Display" menu
2. Select "Concentration"
3. Enter the desired downwind and off-axis distances
4. Select "OK"

Method 2:

1. Display the ALOHA footprint
2. Use your mouse to select the desired concentration point
3. Double-click

After either method, the concentration graph will appear on your screen.

To view the Dose Graph:

1. Select the "Display" menu
2. Select "Dose"

The Dose Graph will appear on your screen. The Dose Point is **ALWAYS** identical to the Concentration Point.

SETTING AND VIEWING THE CONCENTRATION AND DOSE GRAPHS IN MARPLOT

You may set the concentration and dose points directly from MARPLOT.

1. Activate MARPLOT while the ALOHA footprint is displayed
2. Select the pointer tool
3. Use your mouse to set the pointer tool at the desired concentration point
4. Click once
5. Select the “Sharing” menu
6. Select “Set Conc/Dose point”

The concentration graph for the selected point will now be displayed on your screen.

Estimating Length of Time for the Vapor to Reach a Specific Point

1. Activate MARPLOT while the ALOHA footprint is displayed
2. Select the pointer tool
3. Use your mouse to set the pointer tool at the desired point
4. Click once
5. Select the “Sharing” menu
6. Select “Set Conc/Dose point”

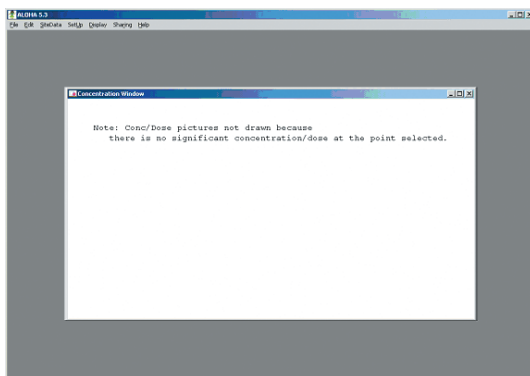
You may now estimate the length of time for the contaminate to reach the selected point by interpreting the concentration graph. Time elapsed is shown on the X-axis.

Estimating Chemical Amount at a Specific Point Over Time

1. Repeat Steps 1 – 6 from above
2. Use the resulting concentration graph to estimate the amount and length of time the chemical is present at the selected point

What do I do if the Concentration Graph does not appear?

If you get the following message, your selected point is outside the ALOHA-predicted contaminated area.



If ALOHA fails to “open” after a “Sharing/Select Conc/Dose” command, the most likely cause is a lost connection between ALOHA and MARPLOT. You can check the connection status by returning to ALOHA, altering the footprint in some manner, then return to MARPLOT to see if the ALOHA changes have been reflected in the map. If not, you will likely need to reboot your computer.

Estimating Length of Time for Tank to Become Empty or Puddle to Evaporate (Display/Source Strength menu)

ALOHA provides estimates of the time necessary for a tank to empty or a puddle to evaporate or volatilize. Under the “Display/Source Strength” menu, the information is given in graphical format. The Text Summary provides the information in a text format.

ALOHA’s Estimate of Time for “Tank” to Empty or “Puddle” to Volatilize

Review the Text Summary/Source Strength Information/Release Duration for ALOHA’s estimate of time necessary for the tank to empty or a puddle to disappear. It is given as “Release Duration”. “Release Duration” does not, however, necessarily mean the tank is empty.

```

ALOHA 5.3 [Text Summary]
File Edit Display Setup Window Source Strength Help

SITE DATA INFORMATION:
Location: OKLAHOMA CITY, OKLAHOMA
Releasing Air Exchange: Per Hour: 8.00 (shattered single star)
Time: July 27, 2008 12:22 hours CDT (using computer's clock)

CHEMICAL INFORMATION:
Chemical Name: CHLORINE
Molecular Weight: 70.91 g/mol
AEGL-1: 50 ppm AEGL-2: 2.0 ppm AEGL-3: 0.5 ppm
ERPG-1: 20 ppm ERPG-2: 2 ppm ERPG-3: 1 ppm
IDLH: 10 ppm
Carcinogenic Risk: see COSHH
Normal Boiling Point: -29.2° F Ambient Boiling Point: -38.0° F
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

ATMOSPHERIC INFORMATION: (MINIMUM INPUT OF DATA)
Wind: 10 mph from S at 2 meters No Inversion Height
Stability Class: B Air Temperature: 80° F
Relative Humidity: 10% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:
Leak from hole in horizontal cylindrical tank
Tank Diameter: 2.5 feet Tank Length: 5 feet
Tank Volume: 100 gallons Tank contains: liquid
Internal Temperature: 80° F
Chemical Mass in Tank: 7.150 pounds Tank is 100% full
Circular Opening Diameter: 0.25 inches
Opening is: 0 feet from tank bottom
Display/Source Strength/Release Rate
Max Average Sustained Release Rate: 114 pounds/min
(Averaged over a minute or more)
Total Amount Released: 7.150 pounds
Note: The chemical escaped as a mixture of gas and aerosol (two phase flow).

FOOTPRINT INFORMATION:
Hazardous Material Gas
Red LEL (50 ppm = AEGL-3) Max Threat Zone: 400 yards
Orange LEL (2.0 ppm = AEGL-2) Max Threat Zone: 1.5 miles
Yellow LEL (0.5 ppm = AEGL-1) Max Threat Zone: 3.2 miles

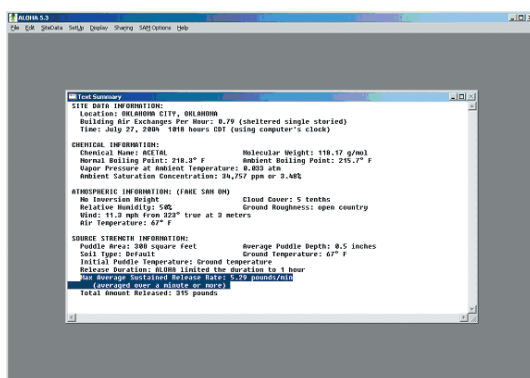
TIME REQUIREMENT INFORMATION:
Concentration Estimates at the point:
  
```

Estimating Time for “Tank” to Empty or “Puddle” to Volatize

Review the Text Summary/Source Strength Information/Release Duration for ALOHA's estimate of time necessary for the tank to empty or the puddle to disappear. Sometimes, the Release Duration will display “ALOHA limited the duration to 1 hour”. This means the release of product into the atmosphere continues after the 60 minute ALOHA limitation period.

To produce your own release duration estimate for either Tank or Puddle Sources:

1. Find the “Max Average Sustained Release Rate” value in the Text Summary



2. Estimate “total amount of product released”
3. Divide “total amount” by “max average sustained release rate”
4. Make sure your “units” are consistent (i.e., do not use “pounds” for the total amount with “gallons” for average release rate)

Example:

- a. 600 gallons of product was spilled
- b. ALOHA estimates a release rate of 5.29 pounds per minute
- c. Convert product “gallons” to “pounds” (e.g., assume product specific gravity is 1.19 [this is the Hydrochloric Acid value from RIDS]) *In this example: 1.19 S.G. multiplied by 8.33 lbs per gallon multiplied by 600 gallons = 5948 Total Pounds*
- d. Divide Total Pounds by Release Rate *(In this example: 5948 Total Pounds divided by 5.29 pounds per minute = 1124 minutes (or 18 hours) total release time duration [this is a conservative estimate])*

Using ALOHA to Predict a Potential Ignition Area

SETTING UEL, LEL, AND 10% LEL AS LOC VALUES

Upper and Lower Explosive Limits (UEL and LEL) may be used as ALOHA LOC values. First, you must find the UEL and LEL values for the desired chemical. These may be found in the CAMEO of RIDS Properties section.

UEL and LEL values are always given as a percentage (%) and must be converted to “ppm” for entry to ALOHA Chemical List. The conversion equation is: **1 % = 10,000 ppm**. For example, if the LEL is 4.9%, then ppm equals 49,000 (4.9 % multiplied by 10,000).

1. Select the “Setup” menu
2. Select the desired chemical from the ALOHA Chemical List
3. Select “Modify”
4. Select “Default LOC-1 (Yellow)”
5. Enter 10% of LEL in ppm units
6. Select “LOC-2 (Orange)”
7. Enter LEL in ppm units
8. Select “LOC-3 (Red)”
9. Enter the UEL in ppm units*

***Note:** The resulting ALOHA footprint will display footprints where airborne concentrations of the released product are predicted to exceed UEL, LEL, and 10% of LEL values.

Using RMP-COMP to Predict an Explosion Zone

To download RMP-COMP at no cost, see *Acquiring the Software*.

To use RMP-COMP to predict a one-pound overpressure area resulting from some type of Vapor Cloud Explosion or a BLEVE:

1. Open RMP-COMP
2. Select the appropriate chemical or mixture
3. Enter field items as indicated

RMP-COMP results are in “radius” format. Use the MARPLOT toolset to position and size the RMP-COMP suggested area on the MARPLOT map.

DISPLAYING ALOHA FOOTPRINTS ON MARPLOT MAPS*

***Note:** Communication between ALOHA and MARPLOT is accomplished via the “Sharing” menu available in either program.

Displaying ALOHA footprints on MARPLOT maps **always** begins by having the MARPLOT map active.

1. Open or activate MARPLOT
2. Select the pointer tool (or arrow tool)
3. Use your mouse to position the “pointer” at the release location and click once
4. Open the “Sharing” menu
5. Select “ALOHA”
6. Select “Set Source Point”

The ALOHA footprint(s) should now be displayed at the selected source point.

What if the footprint does not appear (see the *Troubleshooting Section*)?

MOVING THE ALOHA FOOTPRINT TO A DIFFERENT MAP LOCATION

Unlike other MARPLOT “objects”, you cannot “click-and-drag” an ALOHA footprint. To relocate the ALOHA plume, you must “select” a new source point by repeating Steps 1 – 6 above.

CHANGING ALOHA CONDITIONS, THEN SHOWING NEW FOOTPRINT IN MARPLOT

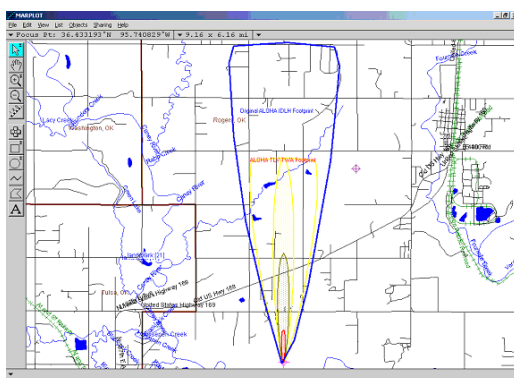
The communication between ALOHA and MARPLOT is “always active”. Thus, ANY change to the ALOHA footprint(s) (e.g., selecting a new LOC, changing the wind direction, selecting a different source option, or altering the release rate) will change the dimensions of the ALOHA footprint. The changes will automatically be displayed in MARPLOT.

SAVING THE ALOHA FOOTPRINT IN MARPLOT BEFORE CHANGING ALOHA CONDITIONS

You may wish to “keep” the previous ALOHA footprint dimensions visible while altering ALOHA parameters. This will allow you to “compare” the various ALOHA footprints.

To “save” an ALOHA footprint, you must use the MARPLOT “draw tools”:

1. Move to MARPLOT with the ALOHA footprint displayed
2. Select the List menu
3. Select “Layer List”
4. Select the “New” button
5. Name the new layer (e.g., “ALOHA footprints”)
6. Select “OK”; the MARPLOT screen should now display the “draw” tools on the left side toolbar.



7. Select the “polygon” tool
8. Use the “polygon” tool to “trace” the ALOHA footprint(s)
9. Name the resulting polygon (e.g., “ALOHA Direct/Instantaneous Footprint” or “ALOHA Chlorine IDLH Footprint”)
10. Associate the new polygon with the User’s Map
11. Select “OK”

You are now ready to return to ALOHA and change the input parameters as desired. The ALOHA footprint will automatically be “updated” on MARPLOT, and the “user-drawn” will also be displayed. This allows comparisons between the two footprints.*

***Note:** In the screenshot above, the blue polygon is a “user-drawn” copy of the 1st ALOHA footprint. The yellow polygon is the “active” ALOHA footprint, which has a higher LOC than the original, or blue, footprint.

DISPLAYING ALOHA FOOTPRINTS ON OTHER MAPS: ARCVIEW, MAPINFO, AND PAPER MAPS

ALOHA and ArcView

ALOHA footprints can be displayed on ArcView products. The instructions are available from the NOAA website at <http://response.restoration.noaa.gov/comeo/dll8.html>.

ALOHA and MAPInfo Professional

ALOHA footprints can be displayed on MAPInfo Professional . The instructions and PlotALOHA Application download are available from the CAMEOfm website at <http://www.uaienvironmental.com/PlotALOHA.asp>.

ALOHA and Paper Maps

You can manually attach ALOHA footprints on printed paper maps (such as, ordinary roadmaps, assessment maps, and floodplain maps). The key element is “matching” the ALOHA output scale with the desired map scale. One method for doing so is:

1. Examine the desired paper map to determine its “scale”; the scale MUST be expressed as either “1 in = ____”, or “1 cm = ____”
2. Create a footprint in ALOHA, and then select the “Display menu”
3. Select “Options”
4. Select “Use user-specified scale”
5. Select “OK”
6. Set the ALOHA scale to same values as the paper map scale
7. Select “OK”
8. Print the ALOHA footprint
9. Attach the printed footprint to the paper map

Optional: You could print the ALOHA footprint on a transparency. Also, you could “trace” the ALOHA footprint onto the paper map.*

***Note:** The ALOHA footprint will not be “wind direction” justified. You will need to “orient” the printed footprint as per current wind direction.

ALOHA Outputs: Printing, and Saving

VIEWING ALOHA OUTPUTS: TEXT SUMMARY, FOOTPRINT, CONC GRAPH, DOSE GRAPH, AND SOURCE STRENGTH GRAPH

Each of the ALOHA outputs can be viewed individually or simultaneously. As you “select” each output item from the “Display” menu, the item will display on the screen.

To view all ALOHA outputs simultaneously:

1. Select the “Display” menu
2. Select “Tile Windows”; all “active” ALOHA outputs will be displayed on your screen.

PRINTING ALOHA OUTPUTS: TEXT SUMMARY, FOOTPRINT, CONC GRAPH, DOSE GRAPH, AND SOURCE STRENGTH GRAPH

Active ALOHA outputs may be printed individually or simultaneously.

1. Select the “File” menu
2. Select “Print”; the currently active output will print

You can also select “Print All” to print all output screens.

Printing ALOHA Outputs when Using a SAM Station

There are additional outputs when using a SAM station. These are also printable using the “Print” and “Print All” menu commands.



SAVING ALOHA INFORMATION

When selecting the File/Save command, ALOHA automatically paths your computer to the ALOHA Export Files folder. You may use the “browse box” to path to a user-selected save folder. ALOHA files may be “saved” only in .alo format.

1. Select “File” and then “Save”
2. Save to the “Export Files” folder or set up your own save folder
3. Name the file and select “Save”

OPENING A SAVED ALOHA FILE

ALOHA files may be opened in one of two formats:

-  Response Mode
-  Planning Mode

Response Mode: The Response Mode should be chosen if ALOHA is being used during a real emergency. As it opens the file, ALOHA will restore all the information contained in the file that is expected to stay the same from day to day. This information includes location, chemical of concern, and the dimensions of existing storage vessels and containment areas. You will need to enter information specific to your incident, including current weather conditions and the circumstances of the release (e.g., the dimensions and location of a hole in a tank or the area of a puddle of spilled liquid).

Planning Mode: The Planning Mode should be chosen when you need to be able to recreate the scenario saved in the ALOHA saved file. When you reopen a saved file created during Planning Mode, all input values will be restored to their state when you saved the file. If you were using the computer's clock, ALOHA will use the time when the file was saved as the constant time. If you were using a MET Station, the last transmission was used while you entered atmospheric data.

Copying ALOHA Outputs Screens to Other Software Programs

Any of the ALOHA output screens may be copied to other software applications using the "Edit" menu's Copy and Paste commands.

To copy a footprint screen to Microsoft Word:

1. Activate the Footprint screen
2. Select "Edit" then select "Copy"
3. Activate Microsoft Word
4. Select "Edit" then select "Paste"; the footprint will now display in Microsoft Word.

To copy the Text Summary to Microsoft Word:

1. Activate the Text Summary Screen
2. Use your mouse to "highlight" the text you wish to copy and paste
3. Select "Edit" then select "Copy"
4. Activate Microsoft Word
5. Select "Edit" then select "Paste"; the Text Summary will now display in Microsoft Word.

The same steps apply to the SAM output files.

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Population Estimates

- ☼ Circle or Radius
- ☼ Area Surrounding a Line or Polyline
- ☼ Inside a Rectangle or Polygon
- ☼ Area Surrounding any Group of Objects

POPULATION ESTIMATE FOR A CIRCLE OR RADIUS

1. Select the “point” or “object”
2. Select the “Sharing” menu
3. Select “Landview”
4. Select “Landview Census 2000 Population Estimator”

This will send you to Landview and open the Population Estimator.

LandView5 - [Blocks 1x5]

File Edit View Insert Format Records System Window Help

Landview Census 2000 Population Estimator Instructions for using this estimator Home

Enter Location and Radius

Latitude Longitude Radius (miles)

Decimal degrees 35.478817 97.893340 0

or

deg-min-sec 35 28 43 97 59 38

hemisphere North South West East

Calculate Population

Clear all fields Refresh Lat/Long from MARPLOT Print this screen Show this radius on map

Results based on Census 2000 (points located within or touching the circle defined by the radius)

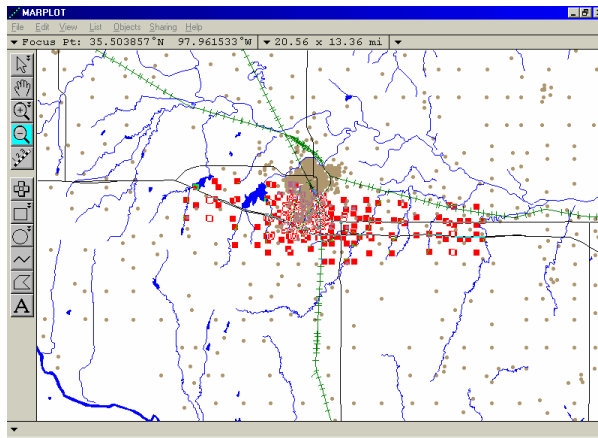
Total population:	0	Block count:	0
Housing Units:	0	Area within radius:	0.000 sq. mi.
White alone:	0		
Black or African American alone:	0		
American Indian and Alaska Native alone:	0		
Asian alone:	0		
Native Hawaiian and Other Pacific Islander alone:	0		
Some other race alone:	0		
Two or more races:	0		
Hispanic or Latino:	0		

100% Zoom In Out Browse For Help, press F1

5. Enter a radius distance (*notice the units are miles*)
6. Select “Calculate Population”

The population estimate is given in the “Total Population” field. To “see” the estimate area displayed in MARPLOT, select the “Show this radius on map” button.

5. Select "Show All On Map"



6. Select the "Sharing" menu

7. Select "Landview"

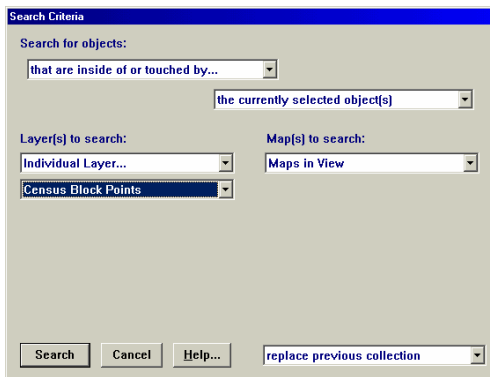
8. Select "Get Info"

9. Select "Summarize"

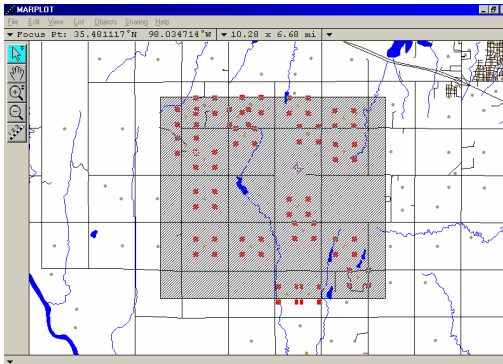
The population estimate is given in the "population" field.

POPULATION ESTIMATE INSIDE A RECTANGLE OR POLYGON

1. Select the “rectangle” or “polygon”
2. Select the “Search” menu
3. Set the search parameters as:
 - a. Search for objects “that are inside of or touched by”
 - b. “The currently selected object(s)”
 - c. Layers to search “Individual Layer”
 - d. Select “Census Block Points” from the drop-down list
 - e. Select “Maps in View”
4. Select “Search”

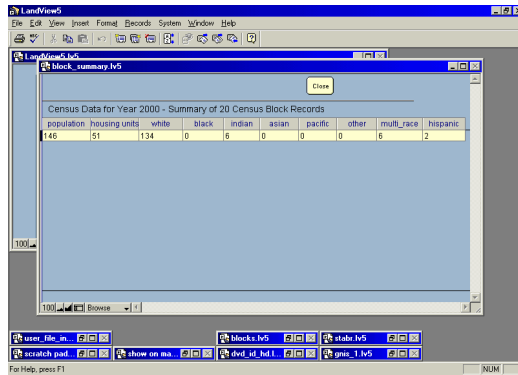


5. Select “Show All On Map”



6. Select the “Sharing” menu
7. Select “Landview”
8. Select “Get Info”
9. Select “Summarize”

The population estimate is given in the “population” field.



Census Data for Year 2000 - Summary of 20 Census Block-Records									
population	housing units	white	black	indian	asian	pacific	other	multi_race	hispanic
145	51	134	0	6	0	0	0	6	2

CAMEO Troubleshooting Questions

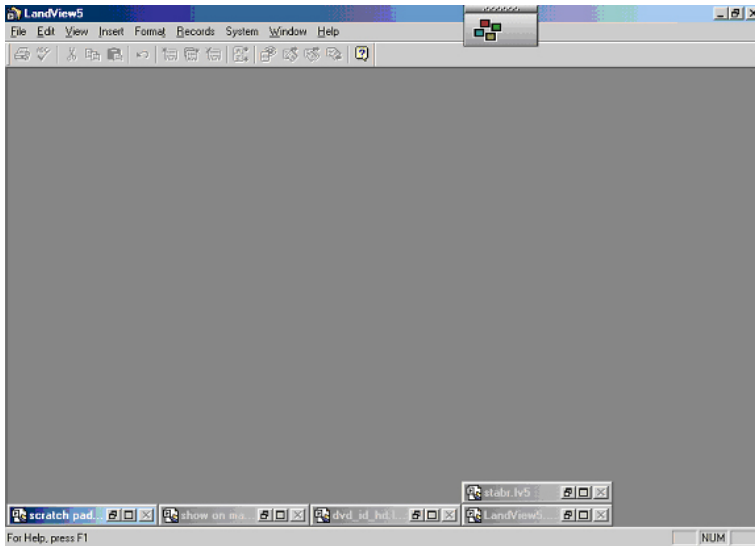
Note: This section does not claim to address all questions and issues users will experience using the CAMEOfm Software Suite. Nor are the “suggested” solutions always the ONLY method of “solving the problem”. The following questions and answers are based on the author’s experience of providing support to CAMEOfm users both in the field and in the office.

1. I have an “error message” stating a CAMEOfm “file” is damaged and “must be recovered”.

See “CAMEOfm for Responders”; Recovering Data section

2. The “Sharing” menu does not transfer me from MARPLOT to Landview.

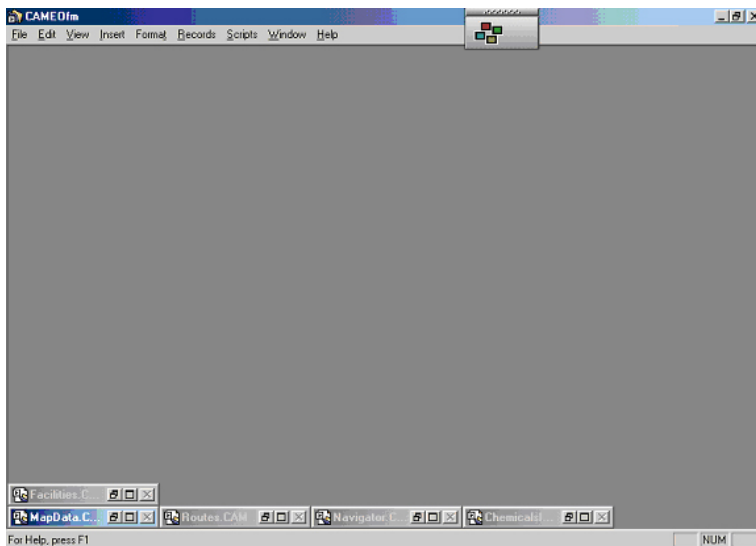
If all the active windows in Landview are “minimized”, Landview will not respond to Sharing commands.



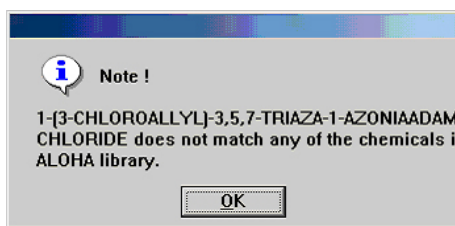
Restore (select the “maximize” command) any Landview window from the bottom of the Landview screen and repeat the Sharing command from MARPLOT.

3. The “Sharing” menu does not transfer me from MARPLOT to CAMEOfm.

Same issue as with Landview from above. If all the active windows in CAMEOfm are “minimized”, CAMEOfm will not respond to Sharing commands.



4. When I select “Choose This Chemical in ALOHA” from the CAMEOfm Chemical Library “Sharing” menu, I get an error message in ALOHA.



The CAMEOfm Chemical Library has over 6,000 listed substances; the ALOHA Chemical List has about 1,000; the error message is informing you that the chemical name you have selected in CAMEOfm is not present in the ALOHA list.

*However, **this does not necessarily mean the chemical you are looking for is not in ALOHA!** The CAS# in BOTH lists must “match”. If you have selected a CAMEOfm chemical that does not list a CAS#, ALOHA will not recognize the substance.*

5. MARPLOT and ALOHA are not displayed in my CAMEOfm “Sharing” menu, or CAMEOfm is not displayed in my MARPLOT “Sharing” menu.

Sometimes, the Sharing Link between the CAMEOfm softwares becomes inactive. Installing a new version of one of the programs may cause this, as well as other computer-related activities.

Try closing all the programs, then open them in this order: CAMEOfm; ALOHA; Landview; MARPLOT (open MARPLOT from the Landview screen “Go To Map”)

If this process does not add all the program choices to the “Sharing” menu, then try rebooting your computer and then open the programs in the suggested order. If that fails to work, you may need assistance to reset your entire CAMEOfm suite system.

6. I linked a MARPLOT object to a CAMEOfm record and the link is not working.

Any time a MARPLOT object is moved into a different layer or map, the “link” to CAMEOfm is lost. Importing a new dataset to CAMEOfm may also destroy the MARPLOT link. You will need to “re-link” the MARPLOT object and CAMEOfm record.

7. How do I move the ALOHA footprint on the MARPLOT map?

Unlike other MARPLOT objects, an ALOHA footprint does not respond to “click-and-drag” functions. To “move” the ALOHA Footprint: Open MARPLOT; Select the “Pointer Tool” (Arrow Tool); Use the mouse to “point” at the desired release point; Select the “Sharing” menu; Select “ALOHA” and “Set Source Point”

8. The ALOHA footprint will not display on the MARPLOT map.

If you have a different Chemical Name in ALOHA, or if you have “opened” a saved ALOHA file, the previous footprint has been erased. You must complete the ALOHA process by entering weather and/or source information to enable ALOHA to create a new footprint. The “new” footprint will automatically be displayed in MARPLOT at the same Source Point as the previous footprint.

9. The chemical I need to model is not in the ALOHA library.

*While it is possible to “Add” a chemical to the ALOHA Chemical List, it is not recommend. **Suggest you do NOT use ALOHA if the chemical name does not appear in the ALOHA Chemical List.***

10. ALOHA will not let me enter the “atmospheric conditions”.

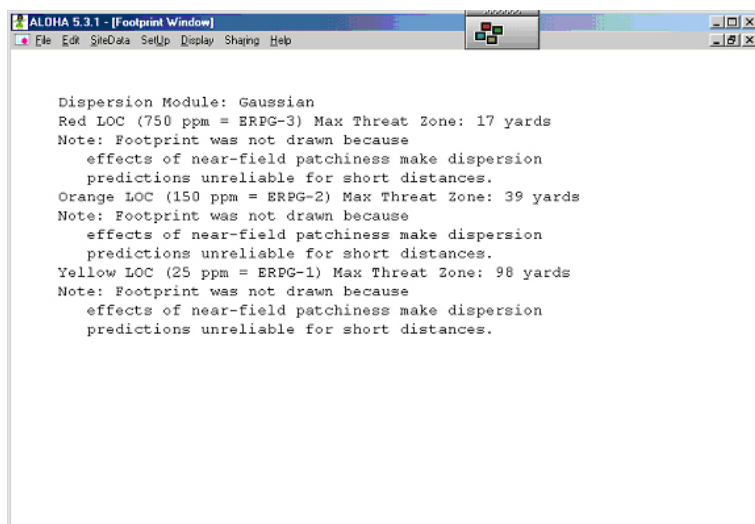
Check the Text Summary. To enter “atmospheric”, you must first have a location selected from the Site Data menu

11. ALOHA will not let me enter the “Source” information.

Check the Text Summary. To enter “Source”, you must first have a Chemical selected from the Setup menu.

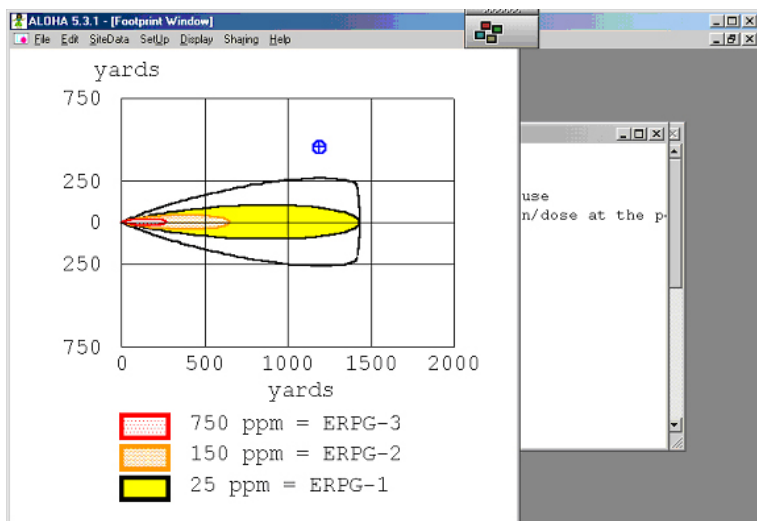
12. ALOHA will not display a footprint.

If ALOHA displays a message as follows, it means ALOHA has predicted a small “threat zone”.

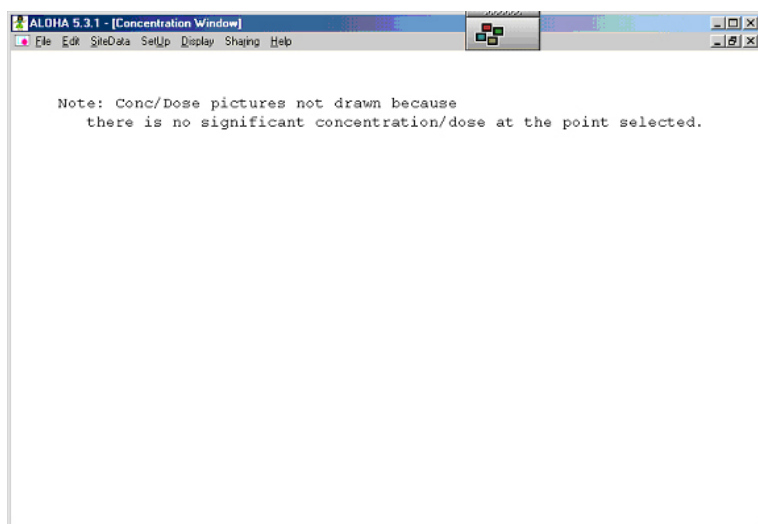


13. ALOHA will not display a concentration or dose graph.

Examine the footprint graph to see your selected concentration/dose point (denoted by the "blue cross inside a circle").



If the Concentration/Dose point lies outside the footprint area, ALOHA displays a message:



14. I need to see all the ALOHA outputs on my computer screen at the same time.

Select the Display menu; Select "Tile Windows"

15. When I use the MARPLOT "Sharing" menu to do a population count in Landview, nothing happens.

If all the active windows in Landview are "minimized", Landview will not respond to Sharing commands. Restore (select the "maximize" command) any Landview window from the bottom of the Landview screen and repeat the Sharing command from MARPLOT.

16. Landview returns a "0" for a Population Estimate.

a. There may not be any Census Block Points within your selected MARPLOT map area. One way to check and see is to: Activate MARPLOT; Select the Layer/Layer List menu; Set the Census Block Points layer to Show; Visually determine if any of the Census Block Points are within your search area.

b. Check to see if the Landview CD-ROM is in your computer. Unless you have moved the Census data from the CD to your hard drive, Landview needs the CD to "find" the Block Points.

c. Check to see if the Census Map is active in your MARPLOT Map List; and that it is the correct Census Map for the area you are searching. Check to see if the Census Map is "pathed" to the correct drive; i.e. c:/ drive, or d:/ drive, or f:/ drive, etc.

17. The MARPLOT roads have disappeared from the screen.

a. Check your "Scale" box. You may be closely zoomed into an area between roads. If the Scale value is very small, try zooming out a couple of times and see if the roads now display.

b. If your Scale value is very large, try zooming in a couple of times. Sometimes your map area is too big for the Roads layer to display.

c. Check to see if the Landview CD is in the computer CD tray.

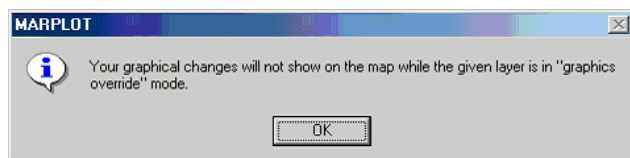
d. Check the MARPLOT Map List to see if the desired "county map" is active and correctly pathed.

e. Check your Layer List to see if the Roads layer has been set to "Hide"

18. I am searching for a facility in CAMEOfm, and all I get are places in Virginia.

CAMEOfm contains several “test” or “example” records when installed; these records are taken from Prince William County, Virginia. Additionally, if you are using a MARPLOT that was not installed from Landview, those same Virginia records are installed and linked to CAMEOfm.

Users should delete all the Virginia CAMEOfm records and their associated MARPLOT objects.



19. MARPLOT error message “Your graphical changes will not show on the map while the the given layer is in “graphics override” mode.

This message appears after the user has altered the Object Settings for a selected object or group of objects. To have object display with different colors, dymbols, etc., the layer must be set to the “1 blue flag, 1 red flag” box found on the right side of the Layer List dialog box; Open the List menu/Layer List menu; locate the layer you wish to edit; Set the “checkmark” on the far right of the Layer List to the “1 blue flag, 1 red flag” box

20. The “2” MARPLOTs issue

It is quite common to install Landview to a computer that already has MARPLOT installed, which results in “2 MARPLOT” programs on your computer. One version of MARPLOT is likely found on your c:drive as marplot.exe in a MARPLOT folder. However, Landview has also installed a version of MARPLOT, usually found on the c: drive as marplot.exe in the LV5 folder.

This can lead to a variety of problems. Recommend you uninstall and delete the c: drive MARPLOT folder and marplot.exe file, and use the MARPLOT found in the LV5 folder.

21. I am searching for “East Main Street” in the Search dialog box, but MARPLOT cannot find it.

Search Criteria

Search for objects:

with names that contain... main

Layer(s) to search:

Individual Layer... Roads

Map(s) to search:

Maps in View

Search Cancel Help... replace previous collection

For best Road Search results, use broad search terms. In the above example, a better search term would be simply “main”.

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